

241300-53-T (Vol. I)

Engineering Report for
P-3/UWB Flight
Portage, Maine
26-27 June 1995

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Introduction

This report is written as an aid to users of the SAR data collected by the P-3/SAR on 26-27 June 1995. The data set generated consists of:

- HDDT #E1421
- HDDT #E1422
- HDDT #E1423
- HDDT #E1424
- Mission Plan disk, data, etc.
- Navigation disks
- Post Pass disks
- Post Pass Summary Sheets
- Radar Engineer Flight Notes

The report consists of a summary of each pass with crew comments included. Users of the data should review the pass summaries to be alerted for anomalies that may have occurred during the collection or noted by processing or analysis people. The appendix contains plots of critical parameters as a function of time.

This information is provided so that users can examine, in some detail the exact time and magnitude of observed anomalies. In addition users can go back to this data to determine if there is a correlation between "funnies" observed during processing and the engineering data. For example, if there was a blank strip in the image it might correlate with the transmitter power plot showing that the transmitter was off during that time.

All of the data shown in the plots is also recorded on the HDDT's in the Aux. data block and could be reproduced by the user. These plots are included in the appendix as a convenience for users of the data. The appendix is available upon request and thus is not included with this set of data.

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Results

A total of 27 passes were flown at 4 sites. Post-flight, it was discovered that incorrect bias values were applied to motion compensation calculations for all XLC mode passes, which will make the quality of data from these passes questionable. The sites, and the number of passes flown by each, follows:

Gravel Pit (22 passes: 15 good, 2 fair, 5 bad)
CAL Array/Cedar Swamp (3 passes: 1 good, 2 bad)
CAL Array/Ground Penetration Site (1 pass: 1 good)
Signature Array (1 pass: 1 fair)

Five frequency bands implemented: X, L, C, UWB Lo-509 MHz, and UWB Lo-180 MHz.

The Lo-180 MHz chirp waveform contained the following notches:
243 MHz Center Frequency, 1 MHz wide
255.4 MHz Center Frequency, 1 MHz wide

Two different chirp waveforms were used on the UWB Lo-509 MHz passes: one chirp containing two FAA frequency notches and an ILS frequency notch, and one chirp containing only the two FAA frequency notches. For each pass summary, the chirp waveform used will denote "ILS notch" or "no ILS notch". The specific notches used were:

ILS notch waveform:
243 MHz Center Frequency, 1 MHz wide
255.4 MHz Center Frequency, 1 MHz wide
406 MHz Center Frequency, 1 MHz wide

no ILS notch waveform:
243 MHz Center Frequency, 1 MHz wide
255.4 MHz Center Frequency, 1 MHz wide

Fifteen second "sniffs" were conducted after each UWB pass in order to collect Radio Frequency Interference (RFI) data. The RFI was much higher than was to be expected for the time of flight (night time) and geographical location. The radar crew reported that the RFI was highly directional, and they eventually could anticipate the amount of RFI they would encounter based on their direction of flight.

Problems Noted

- RTP output "all black" - Pass 1
- Incorrect INS biases used - Passes 1, 27, 28
- INS update after start map point - Passes 6 and 12
- Pass aborted early due to poor navigation - Pass 13
- UWB Transmitter fault (lost 40 seconds of map data) - Pass 19
- Pass aborted early, reason unknown - Pass 27

Pass 5 Line 9

UWB low-band 509 MHz bandwidth, no ILS notch. Target: Calibration Array/Empty Cedar Swamp. Aircraft descended to 10,000 ft MSL. Navigation was poor on this pass, with cross-track error starting out at .165 nm, falling briefly to .16 nm, then climbing throughout the remainder of the pass to end up at .2 nm at the end map point. The transmitter operated well outputting about 975 watts. This was a priority 2 pass which was not repeated during the flight.

Pass 6 Line 11

UWB low-band 509 MHz bandwidth, ILS notch. Target: Gravel Pit + 240 degree aspect angle. Although not noted in the radar crew notes, shortly after start map the INS may have been updated. This is indicated by a slight course change to the North (as indicated on the GPS North and East velocity plots), and the GPS cross-track error rose quickly to a max of about .225 nm. The aircraft recovered back on-line fairly quickly though, although the cross-track error never fell below .16 nm. This was a priority 2 pass which was not repeated during the flight.

Pass 7 Line 13

UWB low-band 509 MHz bandwidth, no ILS notch. Target: Gravel Pit + 60 degree aspect angle. Cross-track error at start map this pass was over .2 nm, possibly due to a short lineup period. It decreased constantly throughout the pass, to end up at .014 at the end map point. Transmitter output was about 954 watts. This was a priority 2 pass, which was not repeated during this flight.

Pass 8 Line 15

UWB low-band 509 MHz bandwidth, ILS notch. Target: Gravel Pit + 210 degree aspect angle. Excellent pass, with cross-track error within .1 nm throughout the pass (averaging .07 nm), and transmitter output at 934 watts. This was a priority 2 pass.

Pass 9 Line 17

UWB low-band 509 MHz bandwidth, no ILS notch. Target: Gravel Pit + 30 degree aspect angle. Another excellent pass, with cross-track error starting at .1 nm and decreasing throughout the pass. Ending cross-track error was .049 nm. Transmitter output remained at 934 watts.

Pass 10 Line 19

UWB low-band 509 MHz bandwidth, ILS notch. Target: Gravel Pit + 180 degree aspect angle. Another good pass, with cross-track error starting out at .11 nm, then falling quickly to stabilize at .06 nm for most of the pass. Transmitter output was down to 914 watts.

Pass Summaries

UWB Portage, Maine Day #2
26-27 June 1995

Pass 1 Line 3

UWB low-band pre-TWT Synthetic Target.

NOTE: Computer system was power-cycled sometime after the Pass 1 Line 3 synthetic target was run, resulting in a resetting of pass numbers back to pass number 1, so this flight produced two passes labeled one.

Pass 1 Line 1

XLC mode. Target: Gravel Pit + 180 degree aspect angle (Training Pass). Navigation was excellent on this pass, with a starting cross-track error of .015 nm and an ending cross-track error of .017 nm. The radar crew reported: "no RTP data (all black)". RMS video level on the Real-time Processor (RTP) channel (channel 1, X-VV) shows 20 dB of attenuation, which resulted in only a 7% RMS video level. This may account for the "black" output of the RTP. RMS video levels on the other 3 channels looked good. This pass was a "training" pass (i.e. low priority) in order to get the INS/Autopilot configuration sorted out prior to the first high-priority pass. The pass was, in this respect, a success.

Pass 2 Line 5

UWB low-band 509 MHz bandwidth, no ILS notch. Target: Gravel Pit + 0 degree aspect angle. First UWB line of the day. Transmitter power was around 934 watts. Navigation was fair, with a begin map cross-track error of .108 nm and an end map cross-track error of .160.

Pass 3 Line 3

UWB low-band 509 MHz bandwidth, ILS notch. Target: Gravel Pit + 180 degree aspect angle. Excellent pass, with no transmitter anomalies (power at 975 watts), and cross-track errors during the pass within .1 nm.

Pass 4 Line 7

UWB low-band 509 MHz bandwidth, no ILS notch. Target: Calibration Array/Empty Cedar Swamp. Navigation was poor on this pass, with cross-track error starting out at .165 nm and climbing from there, ending at .244 nm. No transmitter problems, though, and output was around 975 watts. This was a priority 1 pass which was not repeated during this flight.

Pass 11 Line 21

UWB low-band 509 MHz bandwidth, no ILS notch. Target: Gravel Pit + 0 degree aspect angle. Another good pass, with cross-track error starting at .07 nm and increasing throughout the pass to end up at .1 nm. Transmitter output was about 914 watts.

Pass 12 Line 23

UWB low-band 509 MHz bandwidth, ILS notch. Target: Gravel Pit + 120 degree aspect angle. Poor navigation on this pass. Similar looking GPS cross-track error and North and East velocity plots to pass 6. Cross-track error started out at .261 nm, decreased quickly to .215 nm, then climbed steadily to end at .26 nm. Approximate transmitter power was not recorded during this pass. This was a priority 1 pass which was not repeated during this flight.

Pass 13 Line 25

UWB low-band 509 MHz bandwidth, ILS notch. Target: Gravel Pit + 300 degree aspect angle. Poor navigation again, starting at .26 nm and climbing steadily throughout the pass to end at .36 nm. Transmitter output still at 914 watts. This was a priority 1 pass which may have been aborted early.

Pass 14 Line 25

Repeat of pass 13, but not much better, navigation wise. Cross-track error started out at .28 nm, maxed out at about .285 nm, then decreased steadily throughout the pass to end at .25 nm. This was the last attempt at this pass.

Pass 15 Line 27

UWB low-band 509 MHz bandwidth, ILS notch. Target: Gravel Pit + 150 degree aspect angle. Good pass, with cross-track error below .14 nm throughout pass. Transmitter performed well also, outputting 954 watts.

Pass 16 Line 29

UWB low-band 509 MHz bandwidth, no ILS notch. Target: Gravel Pit + 330 degree aspect angle. Excellent pass, with cross-track errors below .06 nm throughout pass. Transmitter output: 975 watts.

Pass 17 Line 31

UWB low-band, 180 MHz bandwidth. Target: Calibration Array/Ground Penetration Site. Good pass, with cross-track errors starting out at .075 nm and climbing throughout pass to end at .11 nm. Transmitter output was 762 watts.

Pass 18 Line 33

UWB low-band 509 MHz bandwidth, no ILS notch. Target: Signature Array. Aircraft descended to 7,000 ft MSL for this pass. Navigation on this pass started out poor, with .2 nm cross-track error which climbed to a max of .25 nm about 25% through the pass. The error decreased quickly from there though, and was down below .15 nm by the 50% complete point. Cross-track error at end map was .049 nm. Post-pass plots seem to show that the INS was updated about the 25% pass complete point, which cured the excessive cross-track error problem quickly. Transmitter output was around 995 watts.

Pass 19 Line 35

UWB low-band 509 MHz bandwidth, ILS notch. Target: Gravel Pit + 180 degree aspect angle. The aircraft descended to 6,000 ft MSL for the next series of passes. Navigation on this pass was excellent, starting out at .005 nm, maxing out at .008 nm, and ending at .002 nm. The transmitter faulted shortly after start map however, and had to be power-cycled to be brought back on-line. This took approximately 35 seconds. The remainder of the pass was uneventful.

Pass 20-21 Line 37

UWB low-band 509 MHz bandwidth, no ILS notch. Target: Gravel Pit + 0 degree aspect angle. Another excellent navigational pass, with cross-track error starting out at .02 nm left of course and ending up .03 nm right of course. No transmitter problems occurred during mapping, and output power was around 914 watts. The attenuator for channel 4 was changed during mapping, which caused the pass number increment.

Pass 22 Line 39

UWB low-band 509 MHz bandwidth, ILS notch. Target: Gravel Pit + 150 degree aspect angle. Excellent pass, with cross-track errors from .046 nm to .038 nm, and no transmitter problems (output power: 875 watts).

Pass 23 Line 41

UWB low-band 509 MHz bandwidth, no ILS notch. Target: Gravel Pit + 330 degree aspect angle. Excellent pass, with cross-track errors from .04 nm to .05 nm, and transmitter output power around 836 watts. The radar crew reported "lots of target returns on I.F. Spectrum Analyzer".

Pass 24 Line 43

UWB low-band 509 MHz bandwidth, ILS notch. Target: Gravel Pit + 120 degree aspect angle. Good pass, with cross-track errors starting and ending at .1 nm, with a peak error of less than .12 nm about mid-pass. The transmitter behaved well also, outputting about 780 watts.

Pass 25 Line 45

UWB low-band 509 MHz bandwidth, ILS notch. Target: Gravel Pit + 300 degree aspect angle. Excellent pass, with cross-track errors starting at .04 nm and decreasing steadily to 0 at end map point. Transmitter output was 818 watts.

Pass 26 Line 47

UWB low-band 509 MHz bandwidth, no ILS notch. Target: Calibration Array/Cedar Swamp. Good pass, with cross-track errors under .15 nm for most of the pass. Starting cross-track error was .15 nm, decreasing quickly to .12 nm, then climbing steadily throughout the pass to end at .16 nm.

Pass 27 Line 2

XLC high resolution. Target: Gravel Pit + 0 degree aspect angle. This pass was performed to diagnose the "black" RTP output (despite plenty of received video shown on the Analog Oscilloscope) from Line 1 Pass 1. This pass was aborted after 2 seconds in mapping.

Pass 28 Line 2

Repeat of previous pass. It took the aircraft approximately 10 minutes to "turn around" and come in for another pass.

Mission Summaries

Differential GPS Navigation Summary for Portage, ME June 26, 1995
 Xtk. and Alt. Error (feet)

| | Alt. Mean | Alt. St. Dev. | Xtk. Mean | Xtk. St. Dev. |
|---------|-----------|---------------|-----------|---------------|
| Pass 1 | 246.59 | 3.85 | -102.94 | 34.15 |
| Pass 2 | 225.61 | 5.17 | 801.22 | 92.06 |
| Pass 3 | 248.79 | 4.75 | 472.23 | 27.7 |
| Pass 4 | 253.09 | 9.16 | -633.08 | 128.71 |
| Pass 5 | 84.98 | 6.69 | -762.83 | 64.06 |
| Pass 6 | 94.22 | 3.03 | 548.18 | 122.41 |
| Pass 7 | 95.37 | 3.22 | -154.75 | 317.24 |
| Pass 8 | 97.41 | 3.17 | 160.91 | 11.75 |
| Pass 9 | 92.63 | 6.48 | -151.51 | 11.11 |
| Pass 10 | 99.41 | 2.86 | 254.35 | 82.52 |
| Pass 11 | 105.11 | 4.55 | 676.1 | 29.17 |
| Pass 12 | 124.84 | 3.48 | -1112.11 | 83.42 |
| Pass 13 | 126.99 | 1.9 | 1684.08 | 97.42 |
| Pass 14 | 127.82 | 3.49 | 1291.49 | 26.63 |
| Pass 15 | 121.74 | 3.48 | -612.08 | 9.57 |
| Pass 16 | 122.13 | 3.18 | 156.77 | 29.26 |
| Pass 17 | 123.13 | 3.4 | 1153.63 | 28.92 |
| Pass 18 | -71.84 | 9.59 | -172.02 | 510.99 |
| Pass 19 | -72.18 | 1.59 | 1.93 | 18.68 |
| Pass 20 | -74.9 | 3.46 | 218.5 | 44.01 |
| Pass 21 | -74.91 | 3.51 | 222.76 | 41.5 |
| Pass 22 | -63.57 | 2.51 | -214.52 | 17.61 |
| Pass 23 | -61.48 | 1.72 | -538.93 | 67.46 |
| Pass 24 | -55.78 | 3.94 | -308.31 | 40.88 |
| Pass 25 | -45.14 | 2.5 | -119.67 | 10.08 |
| Pass 26 | -55.76 | 2.63 | -203.71 | 74.08 |
| Pass 27 | 167.49 | 1.14 | -54.6 | 7.61 |
| Pass 28 | 177 | 2.44 | 49.39 | 85.64 |

**NORMALIZED AVE POWER LEVEL SUMMARY
(TO: Max Groundspeed & 2000 Hz)**

FOR P3 FLIGHT OF 27 Jun 1995, STARTING HOUR: 2

NOTE: X and L band transmitter power levels may vary if the gain of the RF pulse was not adjusted for a radar configuration change. Consult the Mission Summary sheet for details.

| PASS | LINE | POWER (dBm) | | | | | | GNDSPD (kt) | | |
|------|------|-------------|-------|-------|-------|-------|-------|-------------|-------|-------|
| | | X | L | C | P | | | | | |
| --- | --- | ---- | ---- | ---- | ---- | ----- | ----- | ----- | | |
| 1 | 1 | -32.3 | .02 | -31.4 | .04 | -37.4 | 0.00 | -70.0 | 0.00 | 250.7 |
| 2 | 5 | -70.0 | 0.00 | -70.0 | 0.00 | -70.0 | 0.00 | 40.5 | 21.71 | 250.3 |
| 3 | 3 | -70.0 | 0.00 | -70.0 | 0.00 | -70.0 | 0.00 | 40.5 | 21.87 | 245.3 |
| 4 | 7 | -70.0 | 0.00 | -70.0 | 0.00 | -70.0 | 0.00 | 40.7 | 21.57 | 249.9 |
| 5 | 9 | -70.0 | 0.00 | -70.0 | 0.00 | -70.0 | 0.00 | 40.6 | 21.75 | 252.7 |
| 6 | 11 | -70.0 | 0.00 | -70.0 | 0.00 | -70.0 | 0.00 | 40.8 | 21.25 | 251.6 |
| 7 | 13 | -70.0 | 0.00 | -70.0 | 0.00 | -70.0 | 0.00 | 41.0 | 20.86 | 251.3 |
| 8 | 15 | -70.0 | 0.00 | -70.0 | 0.00 | -70.0 | 0.00 | 40.4 | 21.70 | 255.1 |
| 9 | 17 | -70.0 | 0.00 | -70.0 | 0.00 | -70.0 | 0.00 | 40.3 | 21.68 | 251.7 |
| 10 | 19 | -70.0 | 0.00 | -70.0 | 0.00 | -70.0 | 0.00 | 40.3 | 21.67 | 249.9 |
| 11 | 21 | -70.0 | 0.00 | -70.0 | 0.00 | -70.0 | 0.00 | 40.1 | 21.91 | 257.2 |
| 12 | 23 | -70.0 | 0.00 | -70.0 | 0.00 | -70.0 | 0.00 | 39.8 | 22.34 | 249.2 |
| 13 | 25 | -70.0 | 0.00 | -70.0 | 0.00 | -70.0 | 0.00 | 46.8 | 0.00 | 248.6 |
| 14 | 25 | -70.0 | 0.00 | -70.0 | 0.00 | -70.0 | 0.00 | 39.8 | 22.49 | 253.8 |
| 15 | 27 | -70.0 | 0.00 | -70.0 | 0.00 | -70.0 | 0.00 | 40.7 | 21.50 | 249.7 |
| 16 | 29 | -70.0 | 0.00 | -70.0 | 0.00 | -70.0 | 0.00 | 40.7 | 21.63 | 250.1 |
| 17 | 31 | -70.0 | 0.00 | -70.0 | 0.00 | -70.0 | 0.00 | 38.8 | 20.64 | 250.5 |
| 18 | 33 | -70.0 | 0.00 | -70.0 | 0.00 | -70.0 | 0.00 | 40.5 | 21.88 | 254.1 |
| 19 | 35 | -70.0 | 0.00 | -70.0 | 0.00 | -70.0 | 0.00 | 33.2 | 30.54 | 250.6 |
| 20 | 37 | -70.0 | 0.00 | -70.0 | 0.00 | -70.0 | 0.00 | 46.9 | .05 | 247.0 |
| 21 | | -70.0 | 0.00 | -70.0 | 0.00 | -70.0 | 0.00 | 40.0 | 22.19 | 243.7 |
| 22 | 39 | -70.0 | 0.00 | -70.0 | 0.00 | -70.0 | 0.00 | 40.3 | 21.30 | 249.8 |
| 23 | 41 | -70.0 | 0.00 | -70.0 | 0.00 | -70.0 | 0.00 | 39.8 | 21.67 | 252.8 |
| 24 | 43 | -70.0 | 0.00 | -70.0 | 0.00 | -70.0 | 0.00 | 39.4 | 21.92 | 244.8 |
| 25 | 45 | -70.0 | 0.00 | -70.0 | 0.00 | -70.0 | 0.00 | 40.0 | 21.43 | 250.1 |
| 26 | 47 | -70.0 | 0.00 | -70.0 | 0.00 | -70.0 | 0.00 | 40.0 | 21.58 | 253.8 |
| 27 | 2 | -31.7 | 0.00 | -31.4 | 0.00 | -37.4 | 0.00 | -70.0 | 0.00 | 255.0 |
| 28 | 2 | -31.7 | 0.00 | -31.4 | .02 | -37.4 | .05 | -70.0 | 0.00 | 251.9 |
| AVE: | | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| | | -31.9 | .01 | -31.4 | .02 | -37.4 | .02 | 40.5 | 20.28 | |

MISSION SUMMARY FOR:

PORTAGE MAINE, DAY 2

ON: 26 Jun 1995

| PASS | LN # | S | R | L | R | BRD | DP | ANGS | DES | SAR | WAVE/POL CHANNEL: | | | | | | | |
|-------|---------|---|---|---|---|------|------|------|-----|-----|----------------------|----|---|----|---|----|---|----|
| | | W | E | O | T | | D | | TRK | LK | | 1 | 2 | 3 | 4 | | | |
| | | A | S | O | P | A | S | T | | | | | | | | | | |
| | | T | K | N | G | T | A | T | | | | | | | | | | |
| 1 | 1 | S | H | R | 1 | 25.0 | 40.0 | 40.0 | 6 | 96 | X | HH | L | HH | C | HH | L | VV |
| 2 | 5 | S | H | R | 1 | 25.0 | 45.0 | 45.0 | 186 | 276 | p | VV | p | VH | p | HV | p | HH |
| 3 | 3 | S | H | R | 1 | 25.0 | 45.0 | 45.0 | 6 | 96 | p | VV | p | VH | p | HV | p | HH |
| 4 | 7 | S | H | R | 1 | 25.0 | 45.0 | 45.0 | 276 | 6 | p | VV | p | VH | p | HV | p | HH |
| 5 | 9 | S | H | R | 1 | 25.0 | 30.0 | 30.0 | 276 | 6 | p | VV | p | VH | p | HV | p | HH |
| 6 | 11 | S | H | R | 1 | 25.0 | 30.0 | 30.0 | 66 | 156 | p | VV | p | VH | p | HV | p | HH |
| 7 | 13 | S | H | R | 1 | 25.0 | 30.0 | 30.0 | 246 | 336 | p | VV | p | VH | p | HV | p | HH |
| 8 | 15 | S | H | R | 1 | 25.0 | 30.0 | 30.0 | 36 | 126 | p | VV | p | VH | p | HV | p | HH |
| 9 | 17 | S | H | R | 1 | 25.0 | 30.0 | 30.0 | 216 | 306 | p | VV | p | VH | p | HV | p | HH |
| 10 | 19 | S | H | R | 1 | 25.0 | 30.0 | 30.0 | 6 | 96 | p | VV | p | VH | p | HV | p | HH |
| 11 | 21 | S | H | R | 1 | 25.0 | 30.0 | 30.0 | 186 | 276 | p | VV | p | VH | p | HV | p | HH |
| 12 | 23 | S | H | R | 1 | 25.0 | 30.0 | 30.0 | 306 | 36 | p | VV | p | VH | p | HV | p | HH |
| 13 | 25 | S | H | R | 1 | 25.0 | 30.0 | 30.0 | 126 | 216 | p | VV | p | VH | p | HV | p | HH |
| 14 | 25 | S | H | R | 1 | 25.0 | 30.0 | 30.0 | 126 | 216 | p | VV | p | VH | p | HV | p | HH |
| 15 | 27 | S | H | R | 1 | 25.0 | 30.0 | 30.0 | 336 | 66 | p | VV | p | VH | p | HV | p | HH |
| 16 | 29 | S | H | R | 1 | 25.0 | 30.0 | 30.0 | 156 | 246 | p | VV | p | VH | p | HV | p | HH |
| 17 | 31 | S | H | R | 1 | 25.0 | 28.0 | 28.0 | 276 | 6 | p | VV | p | VH | p | HV | p | HH |
| 18 | 33 | S | H | R | 1 | 25.0 | 20.0 | 20.0 | 276 | 6 | p | VV | p | VH | p | HV | p | HH |
| 19 | 35 | S | H | R | 1 | 25.0 | 15.0 | 15.0 | 6 | 96 | p | VV | p | VH | p | HV | p | HH |
| 20-21 | 37 | S | H | R | 1 | 25.0 | 15.0 | 15.0 | 186 | 276 | p | VV | p | VH | p | HV | p | HH |
| 22 | 39 | S | H | R | 1 | 25.0 | 15.0 | 15.0 | 336 | 66 | p | VV | p | VH | p | HV | p | HH |
| 23 | 41 | S | H | R | 1 | 25.0 | 15.0 | 15.0 | 156 | 246 | p | VV | p | VH | p | HV | p | HH |
| 24 | 43 | S | H | R | 1 | 25.0 | 15.0 | 15.0 | 306 | 36 | p | VV | p | VH | p | HV | p | HH |
| 25 | 45 | S | H | R | 1 | 25.0 | 15.0 | 15.0 | 126 | 216 | p | VV | p | VH | p | HV | p | HH |
| 26 | 47 | S | H | R | 1 | 25.0 | 15.0 | 15.0 | 276 | 6 | p | VV | p | VH | p | HV | p | HH |
| 27 | 2 | S | H | L | 1 | 25.0 | 40.0 | 40.0 | 186 | 96 | X | HH | L | HH | C | HH | L | VV |
| 28 | 2 | S | H | L | 1 | 25.0 | 40.0 | 40.0 | 186 | 96 | X | HH | L | HH | C | HH | L | VV |

MISSION SUMMARY FOR:

PORTAGE MAINE, DAY 2

ON: 26 Jun 1995

| PASS(S) | LINE | HDDT | MOCOMP COUNT | UCT TIME | PASS LEN | TGT ALT |
|---------|------|-------|-------------------|---------------------|----------|---------|
| 1 | 1 | E1421 | 0151096 - 0173099 | 21:42:23 - 21:44:41 | (138) | 660 |
| 2 | 5 | E1421 | 0206113 - 0232945 | 21:52:40 - 21:55:20 | (160) | 660 |
| 3 | 3 | E1421 | 0265131 - 0291631 | 22:02:56 - 22:05:34 | (158) | 660 |
| 4 | 7 | E1421 | 0317331 - 0344671 | 22:15:48 - 22:18:30 | (163) | 802 |
| 5 | 9 | E1421 | 0367515 - 0394364 | 22:31:47 - 22:34:27 | (160) | 802 |
| 6 | 11 | E1421 | 0417376 - 0443377 | 22:42:47 - 22:45:22 | (155) | 660 |
| 7 | 13 | E1421 | 0462892 - 0489894 | 22:51:36 - 22:54:17 | (161) | 660 |
| 8 | 15 | E1421 | 0516937 - 0543743 | 23:02:58 - 23:05:38 | (160) | 660 |
| 9 | 17 | E1422 | 0570090 - 0596959 | 23:12:26 - 23:15:06 | (160) | 660 |
| 10 | 19 | E1422 | 0628672 - 0655473 | 23:22:34 - 23:25:14 | (160) | 660 |
| 11 | 21 | E1422 | 0680986 - 0707159 | 23:32:38 - 23:35:14 | (156) | 660 |
| 12 | 23 | E1422 | 0753170 - 0780171 | 23:47:44 - 23:50:25 | (161) | 660 |
| 13 | 25 | E1422 | 0802016 - 0806350 | 23:57:03 - 23:57:28 | (25) | 660 |
| 14 | 25 | E1422 | 0844534 - 0871201 | 00:09:47 - 00:12:26 | (159) | 660 |
| 15 | 27 | E1422 | 0908049 - 0935547 | 00:22:27 - 00:25:11 | (164) | 660 |
| 16 | 29 | E1422 | 0959726 - 0986894 | 00:31:42 - 00:34:24 | (162) | 660 |
| 17 | 31 | E1423 | 1020406 - 1047407 | 00:44:17 - 00:46:58 | (161) | 802 |
| 18 | 33 | E1423 | 1087785 - 1114252 | 01:01:46 - 01:04:24 | (158) | 660 |
| 19 | 35 | E1423 | 1141976 - 1168601 | 01:13:38 - 01:16:17 | (159) | 660 |
| 20-21 | 37 | E1423 | 1198955 - 1226131 | 01:24:19 - 01:27:01 | (162) | 660 |
| 22 | 39 | E1423 | 1255642 - 1283311 | 01:35:52 - 01:38:37 | (165) | 660 |
| 23 | 41 | E1423 | 1316823 - 1343323 | 01:46:53 - 01:49:31 | (158) | 660 |
| 24 | 43 | E1423 | 1376501 - 1404168 | 01:58:31 - 02:01:16 | (165) | 660 |
| 25 | 45 | E1423 | 1442390 - 1469537 | 02:11:05 - 02:13:47 | (162) | 660 |
| 26 | 47 | E1414 | 1495751 - 1522549 | 02:22:33 - 02:25:13 | (160) | 802 |
| 27 | 2 | E1414 | 1554630 - 1522549 | 02:35:33 - 02:35:35 | (2) | 660 |
| 28 | 2 | E1414 | 1590807 - 1613787 | 02:45:32 - 02:47:55 | (143) | 660 |

Navigation Summary Sheet
For P3 Flight of June 26 Starting at 21:42 (UCT)

| Pass No | Time (UCT) (hr:mn:sc) | INS XTE | | INS/GPS | | Lat. | Dif. | INS/GPS | | Lon. | Dif. | INS | DR. | RATE |
|------------|-----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|------|------|-----|-----|------|
| | | Mean (nm) | S.D. (nm) | Mean (ft) | S.D. (ft) | Mean (ft) | S.D. (ft) | LAT (kt) | LON (kt) | | | | | |
| 1 | 21:42:27 | -.04 | .05 | 618.6 | 499.0 | -916.5 | 287.9 | -.1 | -2.0 | | | | | |
| 2 | 21:52:42 | -.02 | .04 | -436.2 | 478.7 | -425.8 | 255.3 | .7 | -.2 | | | | | |
| 3 | 22:02:57 | -0.00 | .02 | 100.3 | 591.2 | 289.1 | 269.9 | -2.0 | .3 | | | | | |
| 4 | 22:15:48 | -.01 | .04 | -386.4 | 390.1 | 754.8 | 421.4 | -1.9 | -.4 | | | | | |
| 5 | 22:31:47 | -.02 | .04 | -511.2 | 367.8 | 833.7 | 349.5 | -.8 | -.1 | | | | | |
| 6 | 22:42:47 | -.08 | .05 | -425.5 | 445.7 | 374.8 | 699.9 | 1.1 | 4.9 | | | | | |
| 7 | 22:51:37 | .02 | .05 | 1328.9 | 388.7 | 874.1 | 326.6 | -.2 | -.4 | | | | | |
| 8 | 23:03:02 | -.02 | .04 | -321.2 | 410.3 | 1044.0 | 389.8 | .6 | .3 | | | | | |
| 9 | 23:12:29 | -.07 | .05 | -45.9 | 493.2 | 240.4 | 321.1 | 0.0 | -.6 | | | | | |
| 10 | 23:22:34 | -.06 | .05 | -642.5 | 498.3 | -285.6 | 323.2 | .3 | -.3 | | | | | |
| 11 | 23:32:39 | -.09 | .03 | 317.7 | 552.4 | -243.2 | 322.6 | -.6 | .8 | | | | | |
| 12 | 23:47:44 | -0.00 | .05 | 190.8 | 441.9 | 786.3 | 420.5 | -2.3 | -1.0 | | | | | |
| 13 | 23:57:04 | .03 | .05 | -598.8 | 350.1 | -913.3 | 426.7 | *.* | -5.5 | | | | | |
| 14 | 00:09:50 | -.03 | .07 | -536.3 | 415.9 | -274.3 | 341.5 | -1.1 | -.6 | | | | | |
| 15 | 00:22:30 | -.03 | .06 | 77.6 | 525.5 | 126.8 | 307.5 | 1.5 | -.7 | | | | | |
| 16 | 00:31:45 | -.03 | .05 | 617.0 | 505.3 | -412.3 | 284.4 | 3.5 | .3 | | | | | |
| 17 | 00:44:20 | -.01 | .02 | 398.7 | 377.0 | 837.8 | 313.2 | -.5 | -1.3 | | | | | |
| 18 | 01:01:47 | .03 | .11 | 146.6 | 828.7 | 493.2 | 507.6 | 5.3 | 3.4 | | | | | |
| 19 | 01:13:42 | -.01 | .03 | -1524.8 | 556.0 | -59.4 | 305.3 | -4.1 | -1.7 | | | | | |
| 20 | 01:24:22 | -.03 | .04 | 140.8 | 507.3 | 59.1 | 274.9 | -3.7 | -.3 | | | | | |
| 22 | 01:35:52 | -.02 | .04 | -539.9 | 419.6 | 433.6 | 287.6 | .9 | 0.0 | | | | | |
| 23 | 01:46:57 | -.02 | .04 | 1139.1 | 376.5 | 252.0 | 290.0 | .7 | -.3 | | | | | |
| 24 | 01:58:32 | -.01 | .03 | -49.5 | 384.8 | -196.3 | 360.1 | 1.6 | -.8 | | | | | |
| 25 | 02:11:07 | -.05 | .05 | 225.7 | 376.8 | 112.1 | 321.2 | -0.0 | -.2 | | | | | |
| 26 | 02:22:37 | 0.00 | .04 | 378.6 | 443.1 | 76.0 | 471.3 | -2.5 | -3.1 | | | | | |
| 27 | 02:35:34 | *.* 0.00 | | -292.4 | 0.0 | 242.3 | 0.0 | 0.0 | 0.0 | | | | | |
| 28 | 02:45:34 | .01 | .04 | 224.6 | 444.1 | -1044.3 | 308.5 | -.1 | -.7 | | | | | |

Navigation Summary Sheet
For P3 Flight of June 26 Starting at 21:42 (UCT)

| Pass No | Time (UCT) (hr:mn:sc) | GPS | XTE | Comp. | Inc. | Ang. | Baro. | Alt. | Gndspeed |
|------------|-----------------------------|--------------|--------------|-------------|-------------|--------------|--------------|-------------|-------------|
| | | Mean (nm) | S.D. (nm) | Mean (°) | S.D. (°) | Mean (ft) | S.D. (ft) | INS (kt) | GPS (kt) |
| 1 | 21:42:27 | -.01 | 0.00 | 0.0 | 0.0 | 13501.3 | 4.6 | 250.7 | 250.8 |
| 2 | 21:52:42 | .14 | .01 | 0.0 | 0.0 | 13422.0 | 4.2 | 250.3 | 250.8 |
| 3 | 22:02:57 | .09 | .01 | 0.0 | 0.0 | 13513.7 | 5.6 | 245.4 | 246.2 |
| 4 | 22:15:48 | -.21 | .03 | 0.0 | 0.0 | 13493.4 | 3.9 | 249.9 | 250.8 |
| 5 | 22:31:47 | -.18 | .01 | 0.0 | 0.0 | 9971.5 | 4.2 | 252.7 | 253.3 |
| 6 | 22:42:47 | .18 | .02 | 0.0 | 0.0 | 9979.5 | 2.8 | 251.5 | 251.5 |
| 7 | 22:51:37 | -.07 | .06 | 0.0 | 0.0 | 9955.8 | 3.3 | 251.3 | 252.1 |
| 8 | 23:03:02 | .07 | .01 | 0.0 | 0.0 | 9984.1 | 2.2 | 255.1 | 255.0 |
| 9 | 23:12:29 | -.07 | .02 | 0.0 | 0.0 | 9937.2 | 4.1 | 251.7 | 252.4 |
| 10 | 23:22:34 | .07 | .01 | 0.0 | 0.0 | 9981.5 | 3.2 | 249.9 | 250.6 |
| 11 | 23:32:39 | .09 | .01 | 0.0 | 0.0 | 9948.3 | 5.3 | 257.2 | 256.4 |
| 12 | 23:47:44 | -.24 | .02 | 0.0 | 0.0 | 9993.0 | 2.5 | 249.2 | 250.4 |
| 13 | 23:57:04 | .33 | .02 | 0.0 | 0.0 | 9968.7 | 1.5 | 248.7 | 247.8 |
| 14 | 00:09:50 | .27 | .01 | 0.0 | 0.0 | 9978.7 | 2.3 | 253.8 | 254.3 |
| 15 | 00:22:30 | -.13 | 0.00 | 0.0 | 0.0 | 9989.1 | 2.8 | 249.7 | 249.7 |
| 16 | 00:31:45 | .05 | .01 | 0.0 | 0.0 | 9958.6 | 3.6 | 250.0 | 251.5 |
| 17 | 00:44:20 | .09 | .01 | 0.0 | 0.0 | 9972.0 | 3.3 | 250.4 | 250.7 |
| 18 | 01:01:47 | -.14 | .08 | 0.0 | 0.0 | 6833.8 | 7.9 | 254.1 | 254.4 |
| 19 | 01:13:42 | -0.00 | 0.00 | 0.0 | 0.0 | 5845.7 | 1.9 | 250.6 | 253.8 |
| 20 | 01:24:22 | .01 | .02 | 0.0 | 0.0 | 5828.5 | 4.4 | 244.0 | 242.3 |
| 22 | 01:35:52 | -.04 | 0.00 | 0.0 | 0.0 | 5845.6 | 3.0 | 249.9 | 250.3 |
| 23 | 01:46:57 | -.04 | .01 | 0.0 | 0.0 | 5845.6 | 2.8 | 252.7 | 253.9 |
| 24 | 01:58:32 | -.11 | .01 | 0.0 | 0.0 | 5840.8 | 3.5 | 244.8 | 244.9 |
| 25 | 02:11:07 | .03 | .01 | 0.0 | 0.0 | 5854.1 | 4.1 | 250.0 | 250.9 |
| 26 | 02:22:37 | -.13 | .01 | 0.0 | 0.0 | 5844.4 | 3.3 | 253.8 | 252.8 |
| 27 | 02:35:34 | -.02 | 0.00 | 0.0 | 0.0 | 13314.0 | 0.0 | 255.0 | 252.1 |
| 28 | 02:45:34 | .01 | .02 | 0.0 | 0.0 | 13329.1 | 2.0 | 251.9 | 250.9 |

Pre-pass Data Sheets

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 1

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

| | Latitude | Longitude | | Latitude | Longitude | Altitude |
|----------|------------|------------|----------|------------|------------|-----------|
| FROM: | N 30:07.76 | W 70:33.18 | No. | N 46:39.76 | W 68:31.33 | 660 ft |
| Line-up: | N 46:28.09 | W 68:36.78 | Start | N 46:44.73 | W 68:30.56 | 660 ft |
| Start: | N 46:40.02 | W 68:34.97 | Main | N 46:49.70 | W 68:29.80 | 660 ft |
| End: | N 46:49.96 | W 68:33.45 | Last | | | |
| TO: | N 63:14.50 | W 64:46.39 | Tgt Trk: | 0.0° | Vel: | 0.0 knots |

Radar data

Radar Mode: XLC

Radar Collection mode: Stripmap

| | | | | | |
|------------|-------------|----------------|-------------|--------------|--------|
| X Offset: | 5.65 ft | Alt over tgt: | 12840.00 ft | Des Trk: | 5.99° |
| Cmp Grg: | 2.52 nmi | Ant Dep ang: | 25.00° | Look: | Right |
| Cmp Alt: | 12840.00 ft | Est time: | 2:24 min | Resolution: | |
| Map Len: | 10.00 nmi | MCP Slt rng: | 3.29 nmi | Swath Width: | Single |
| Strip Len: | 10.00 nmi | Strip Len Pad: | 0.00 nmi | | |
| Req Pndr: | 0.00 ft | Beg Squint: | 90.00° | End Squint: | 90.00° |
| RgGtDlt: | 0.00 ft | AdjGnd Scene: | 5000.00 ft | | |

Pre-processor mode: Presum6

Channel Settings:

| | Wv/Pol | Swth | Cent Ang | Tgt | Dep Ang | Starting | Range |
|-------|--------|------|----------|-----|---------|----------|----------|
| Ch 1: | X HH | | 40.00° | | 40.00° | | 1.96 nmi |
| Ch 2: | L HH | | 40.00° | | 40.00° | | 1.96 nmi |
| Ch 3: | C HH | | 40.00° | | 40.00° | | 1.96 nmi |
| Ch 4: | L VV | | 40.00° | | 40.00° | | 1.96 nmi |

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 2

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

| | Latitude | Longitude | | No. | Latitude | Longitude | Altitude |
|----------|------------|------------|--|----------|------------|------------|-----------|
| FROM: | N 63:14.50 | W 64:46.38 | | Start | N 46:49.70 | W 68:29.80 | 660 ft |
| Line-up: | N 47:01.89 | W 68:31.61 | | Main | N 46:44.73 | W 68:30.56 | 660 ft |
| Start: | N 46:49.96 | W 68:33.44 | | Last | N 46:39.76 | W 68:31.33 | 660 ft |
| End: | N 46:40.02 | W 68:34.96 | | | | | |
| TO: | N 30:07.76 | W 70:33.17 | | | | | |
| | | | | Tgt Trk: | 0.0° | Vel: | 0.0 knots |

Radar data

Radar Mode: XLC

Radar Collection mode: Stripmap

| | | | | | |
|------------|-------------|----------------|-------------|--------------|---------|
| X Offset: | 5.72 ft | Alt over tgt: | 12840.00 ft | Des Trk: | 186.01° |
| Cmp Grg: | 2.51 nmi | Ant Dep ang: | 25.00° | Look: | Left |
| Cmp Alt: | 12840.00 ft | Est time: | 2:24 min | Resolution: | |
| Map Len: | 10.00 nmi | MCP Slt rng: | 3.29 nmi | Swath Width: | Single |
| Strip Len: | 10.00 nmi | Strip Len Pad: | 0.00 nmi | | |
| Req Pndr: | 0.00 ft | Beg Squint: | -90.00° | End Squint: | -90.00° |
| RgGtDlt: | 0.00 ft | AdjGnd Scene: | 5000.00 ft | | |

Pre-processor mode: Presum6

Channel Settings:

| | Wv/Pol | Swth | Cent Ang | Tgt | Dep Ang | Starting Range |
|-------|--------|------|----------|-----|---------|----------------|
| Ch 1: | X HH | | 40.00° | | 40.00° | 1.96 nmi |
| Ch 2: | L HH | | 40.00° | | 40.00° | 1.96 nmi |
| Ch 3: | C HH | | 40.00° | | 40.00° | 1.96 nmi |
| Ch 4: | L VV | | 40.00° | | 40.00° | 1.96 nmi |

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 3

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

| | Latitude | Longitude | | No. | Latitude | Longitude | Altitude |
|----------|------------|------------|--|----------|------------|------------|-----------|
| FROM: | N 30:07.71 | W 70:32.59 | | | | | |
| Line-up: | N 46:28.05 | W 68:36.19 | | Start | N 46:39.76 | W 68:31.33 | 660 ft |
| Start: | N 46:39.98 | W 68:34.38 | | Main | N 46:44.73 | W 68:30.56 | 660 ft |
| End: | N 46:49.92 | W 68:32.86 | | Last | N 46:49.70 | W 68:29.80 | 660 ft |
| TO: | N 63:14.46 | W 64:45.81 | | | | | |
| | | | | Tgt Trk: | 0.0° | Vel: | 0.0 knots |

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

| | | | | | |
|------------|-------------|----------------|-------------|--------------|--------|
| X Offset: | 3.96 ft | Alt over tgt: | 12840.00 ft | Des Trk: | 5.99° |
| Cmp Grg: | 2.12 nmi | Ant Dep ang: | 25.00° | Look: | Right |
| Cmp Alt: | 12840.00 ft | Est time: | 2:24 min | Resolution: | |
| Map Len: | 10.00 nmi | MCP Slt rng: | 2.99 nmi | Swath Width: | Single |
| Strip Len: | 10.00 nmi | Strip Len Pad: | 0.00 nmi | | |
| Req Pndr: | 0.00 ft | Beg Squint: | 90.00° | End Squint: | 90.00° |
| RgGtDlt: | 0.00 ft | AdjGnd Scene: | 5000.00 ft | | |

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U2B

| | | | |
|---------------------|----------------------------|---------------------|-------------------------------|
| Starting Frequency: | 215.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |
| Notches: | | Predistortion Type: | UWB Amplitude fix |
| 1) | 1 MHz Bandwidth Centered @ | 242.9 MHz, Depth @ | 9.3 dB |
| 2) | 1 MHz Bandwidth Centered @ | 406 MHz, Depth @ | 9.3 dB |
| 3) | 0 MHz Bandwidth Centered @ | 0 MHz, Depth @ | Depth unknown call Mark Hawks |
| @ | (313) 994-1200 EXT 2490 | | |

Receive Chirp File: CRL1N0A

| | | | |
|---------------------|------------|---------|---------------|
| Starting Frequency: | 1405.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |

Channel Settings:

| | Wv/Pol | Swth | Cent Ang | Tgt | Dep Ang | Starting Range |
|-------|--------|--------|----------|--------|---------|----------------|
| Ch 1: | p VV | 45.00° | | 45.00° | | 2.74 nmi |
| Ch 2: | p VH | 45.00° | | 45.00° | | 2.74 nmi |
| Ch 3: | p HV | 45.00° | | 45.00° | | 2.74 nmi |
| Ch 4: | p HH | 45.00° | | 45.00° | | 2.74 nmi |

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 5

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

| | Latitude | Longitude | | Latitude | Longitude | Altitude |
|----------|------------|------------|----------|------------|------------|-----------|
| FROM: | N 63:14.02 | W 64:39.72 | No. | | | |
| Line-up: | N 47:01.40 | W 68:24.91 | Start | N 46:49.70 | W 68:29.80 | 660 ft |
| Start: | N 46:49.48 | W 68:26.74 | Main | N 46:44.73 | W 68:30.56 | 660 ft |
| End: | N 46:39.53 | W 68:28.26 | Last | N 46:39.76 | W 68:31.33 | 660 ft |
| TO: | N 30:07.27 | W 70:26.48 | Tgt Trk: | 0.0° | Vel: | 0.0 knots |

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

| | | | | | |
|------------|-------------|----------------|-------------|--------------|---------|
| X Offset: | 3.99 ft | Alt over tgt: | 12840.00 ft | Des Trk: | 186.01° |
| Cmp Grg: | 2.11 nmi | Ant Dep ang: | 25.00° | Look: | Right |
| Cmp Alt: | 12840.00 ft | Est time: | 2:24 min | Resolution: | |
| Map Len: | 10.00 nmi | MCP Slt rng: | 2.99 nmi | Swath Width: | Single |
| Strip Len: | 10.00 nmi | Strip Len Pad: | 0.00 nmi | | |
| Req Pndr: | 0.00 ft | Beg Squint: | 90.00° | End Squint: | 90.00° |
| RgGtDlt: | 0.00 ft | AdjGnd Scene: | 5000.00 ft | | |

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U2B

| | | | |
|---------------------|----------------------------|---------------------|-------------------|
| Starting Frequency: | 215.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |
| Notches: | | Predistortion Type: | UWB Amplitude fix |
| 1) | 1 MHz Bandwidth Centered @ | 242.9 MHz, Depth @ | 9.3 dB |
| 2) | 1 MHz Bandwidth Centered @ | 406 MHz, Depth @ | 9.3 dB |

Receive Chirp File: CRL1N0A

| | | | |
|---------------------|------------|---------|---------------|
| Starting Frequency: | 1405.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |

Channel Settings:

| | Wv/Pol | Swth | Cent Ang | Tgt | Dep Ang | Starting | Range |
|-------|--------|--------|----------|--------|---------|----------|-------|
| Ch 1: | p VV | 45.00° | | 45.00° | | 2.74 | nmi |
| Ch 2: | p VH | 45.00° | | 45.00° | | 2.74 | nmi |
| Ch 3: | p HV | 45.00° | | 45.00° | | 2.74 | nmi |
| Ch 4: | p HH | 45.00° | | 45.00° | | 2.74 | nmi |

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 7

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: CALCS

| | Latitude | Longitude | | No. | Latitude | Longitude | Altitude |
|----------|------------|------------|--|----------|------------|------------|-----------|
| FROM: | N 42:36.03 | W 45:45.85 | | | | | |
| Line-up: | N 46:40.39 | W 68:04.74 | | Start | N 46:43.76 | W 68:21.75 | 802 ft |
| Start: | N 46:41.68 | W 68:22.07 | | Main | N 46:44.29 | W 68:28.98 | 802 ft |
| End: | N 46:42.73 | W 68:36.53 | | Last | N 46:44.81 | W 68:36.21 | 802 ft |
| TO: | N 45:53.35 | W 92:35.40 | | | | | |
| | | | | Tgt Trk: | 0.0° | Vel: | 0.0 knots |

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

| | | | | | |
|------------|-------------|----------------|-------------|--------------|---------|
| X Offset: | 18.32 ft | Alt over tgt: | 12698.00 ft | Des Trk: | 276.08° |
| Cmp Grg: | 2.09 nmi | Ant Dep ang: | 25.00° | Look: | Right |
| Cmp Alt: | 12698.00 ft | Est time: | 2:24 min | Resolution: | |
| Map Len: | 10.00 nmi | MCP Slt rng: | 2.96 nmi | Swath Width: | Single |
| Strip Len: | 10.00 nmi | Strip Len Pad: | 0.00 nmi | | |
| Req Pndr: | 0.00 ft | Beg Squint: | 90.00° | End Squint: | 90.00° |
| RgGtDlt: | 0.00 ft | AdjGnd Scene: | 5000.00 ft | | |

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U2B

| | | | |
|--------------------------------|-----------|---------------------|-------------------|
| Starting Frequency: | 215.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |
| Notches: | | Predistortion Type: | UWB Amplitude fix |
| 1) 1 MHz Bandwidth Centered @ | 242.9 MHz | Depth @ | 9.3 dB |
| 2) 1 MHz Bandwidth Centered @ | 406 MHz | Depth @ | 9.3 dB |

Receive Chirp File: CRL1N0A

| | | | |
|---------------------|------------|---------|---------------|
| Starting Frequency: | 1405.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |

Channel Settings:

| | Wv/Pol | Swth | Cent Ang | Tgt | Dep Ang | Starting | Range |
|-------|--------|--------|----------|--------|---------|----------|-------|
| Ch 1: | p VV | 45.00° | | 45.00° | | 2.70 | nmi |
| Ch 2: | p VH | 45.00° | | 45.00° | | 2.70 | nmi |
| Ch 3: | p HV | 45.00° | | 45.00° | | 2.70 | nmi |
| Ch 4: | p HH | 45.00° | | 45.00° | | 2.70 | nmi |

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 9

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

| | Latitude | Longitude |
|----------|------------|------------|
| FROM: | N 42:35.56 | W 45:46.11 |
| Line-up: | N 46:39.86 | W 68:04.82 |
| Start: | N 46:41.15 | W 68:22.15 |
| End: | N 46:42.20 | W 68:36.61 |
| TO: | N 45:52.85 | W 92:35.25 |

Target: CALCS

| | No. | Latitude | Longitude | Altitude | |
|--|-------|------------|------------|----------|-----------|
| | Start | N 46:43.76 | W 68:21.75 | 802 ft | |
| | Main | N 46:44.29 | W 68:28.98 | 802 ft | |
| | Last | N 46:44.81 | W 68:36.21 | 802 ft | |
| | | Tgt Trk: | 0.0° | Vel: | 0.0 knots |

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

| | | | | | |
|------------|------------|----------------|------------|--------------|---------|
| X Offset: | 22.71 ft | Alt over tgt: | 9198.00 ft | Des Trk: | 276.08° |
| Cmp Grg: | 2.62 nmi | Ant Dep ang: | 25.00° | Look: | Right |
| Cmp Alt: | 9198.00 ft | Est time: | 2:24 min | Resolution: | |
| Map Len: | 10.00 nmi | MCP Slt rng: | 3.03 nmi | Swath Width: | Single |
| Strip Len: | 10.00 nmi | Strip Len Pad: | 0.00 nmi | | |
| Req Pndr: | 0.00 ft | Beg Squint: | 90.00° | End Squint: | 90.00° |
| RgGtDlt: | 0.00 ft | AdjGnd Scene: | 5000.00 ft | | |

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U2B

| | | | |
|--------------------------------|--------------------|---------------------|-------------------|
| Starting Frequency: | 215.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |
| Notches: | | Predistortion Type: | UWB Amplitude fix |
| 1) 1 MHz Bandwidth Centered @ | 242.9 MHz, Depth @ | 9.3 dB | |
| 2) 1 MHz Bandwidth Centered @ | 406 MHz, Depth @ | 9.3 dB | |

Receive Chirp File: CRL1NOA

| | | | |
|---------------------|------------|---------|---------------|
| Starting Frequency: | 1405.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |

Channel Settings:

| | Wv/Pol | Swth Cent Ang | Tgt Dep Ang | Starting Range |
|-------|--------|---------------|-------------|----------------|
| Ch 1: | p VV | 30.00° | 30.00° | 2.77 nmi |
| Ch 2: | p VH | 30.00° | 30.00° | 2.77 nmi |
| Ch 3: | p HV | 30.00° | 30.00° | 2.77 nmi |
| Ch 4: | p HH | 30.00° | 30.00° | 2.77 nmi |

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 11

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

| | Latitude | Longitude | | No. | Latitude | Longitude | Altitude |
|----------|------------|------------|--|----------|------------|------------|-----------|
| FROM: | N 38:11.70 | W 87:57.28 | | Start | N 46:42.69 | W 68:37.20 | 660 ft |
| Line-up: | N 46:40.21 | W 68:54.68 | | Main | N 46:44.73 | W 68:30.56 | 660 ft |
| Start: | N 46:45.12 | W 68:38.78 | | Last | N 46:46.75 | W 68:23.92 | 660 ft |
| End: | N 46:49.19 | W 68:25.49 | | | | | |
| TO: | N 51:06.09 | W 43:59.16 | | | | | |
| | | | | Tgt Trk: | 0.0° | Vel: | 0.0 knots |

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

| | | | | | |
|------------|------------|----------------|------------|--------------|--------|
| X Offset: | 22.99 ft | Alt over tgt: | 9340.00 ft | Des Trk: | 65.90° |
| Cmp Grg: | 2.66 nmi | Ant Dep ang: | 25.00° | Look: | Right |
| Cmp Alt: | 9340.00 ft | Est time: | 2:24 min | Resolution: | |
| Map Len: | 10.00 nmi | MCP Slt rng: | 3.07 nmi | Swath Width: | Single |
| Strip Len: | 10.00 nmi | Strip Len Pad: | 0.00 nmi | | |
| Req Pndr: | 0.00 ft | Beg Squint: | 90.00° | End Squint: | 90.00° |
| RgGtDlt: | 0.00 ft | AdjGnd Scene: | 5000.00 ft | | |

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U2B

| | | | |
|---------------------|--|---------------------|-------------------|
| Starting Frequency: | 215.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |
| Notches: | | Predistortion Type: | UWB Amplitude fix |
| 1) | 1 MHz Bandwidth Centered @ 242.9 MHz, Depth @ 9.3 dB | | |
| 2) | 1 MHz Bandwidth Centered @ 406 MHz, Depth @ 9.3 dB | | |

Receive Chirp File: CRL1N0A

| | | | |
|---------------------|------------|---------|---------------|
| Starting Frequency: | 1405.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |

Channel Settings:

| | Wv/Pol | Swth | Cent Ang | Tgt | Dep Ang | Starting | Range |
|-------|--------|------|----------|-----|---------|----------|----------|
| Ch 1: | p VV | | 30.00° | | 30.00° | | 2.82 nmi |
| Ch 2: | p VH | | 30.00° | | 30.00° | | 2.82 nmi |
| Ch 3: | p HV | | 30.00° | | 30.00° | | 2.82 nmi |
| Ch 4: | p HH | | 30.00° | | 30.00° | | 2.82 nmi |

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 13

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

| | Latitude | Longitude | | No. | Latitude | Longitude | Altitude |
|----------|------------|------------|--|----------|------------|------------|-----------|
| FROM: | N 51:01.11 | W 43:58.40 | | Start | N 46:46.75 | W 68:23.91 | 660 ft |
| Line-up: | N 46:49.16 | W 68:06.36 | | Main | N 46:44.73 | W 68:30.56 | 660 ft |
| Start: | N 46:44.31 | W 68:22.34 | | Last | N 46:42.70 | W 68:37.21 | 660 ft |
| End: | N 46:40.25 | W 68:35.62 | | | | | |
| TO: | N 38:07.53 | W 87:53.28 | | | | | |
| | | | | Tgt Trk: | 0.0° | Vel: | 0.0 knots |

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

| | | | | | |
|------------|------------|----------------|------------|--------------|---------|
| X Offset: | 23.01 ft | Alt over tgt: | 9340.00 ft | Des Trk: | 246.10° |
| Cmp Grg: | 2.66 nmi | Ant Dep ang: | 25.00° | Look: | Right |
| Cmp Alt: | 9340.00 ft | Est time: | 2:24 min | Resolution: | |
| Map Len: | 10.00 nmi | MCP Slt rng: | 3.07 nmi | Swath Width: | Single |
| Strip Len: | 10.00 nmi | Strip Len Pad: | 0.00 nmi | | |
| Req Pndr: | 0.00 ft | Beg Squint: | 90.00° | End Squint: | 90.00° |
| RgGtDlt: | 0.00 ft | AdjGnd Scene: | 5000.00 ft | | |

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U2A

| | | | |
|--------------------------------|--------------------|---------------------|-------------------|
| Starting Frequency: | 215.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |
| Notches: | | Predistortion Type: | UWB Amplitude fix |
| 1) 1 MHz Bandwidth Centered @ | 242.9 MHz, Depth @ | 9.3 dB | |
| 2) 1 MHz Bandwidth Centered @ | 255.3 MHz, Depth @ | 9.3 dB | |

Receive Chirp File: CRL1N0A

| | | | |
|---------------------|------------|---------|---------------|
| Starting Frequency: | 1405.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |

Channel Settings:

| | Wv/Pol | Swth | Cent Ang | Tgt | Dep Ang | Starting Range |
|-------|--------|------|----------|-----|---------|----------------|
| Ch 1: | p VV | | 30.00° | | 30.00° | 2.82 nmi |
| Ch 2: | p VH | | 30.00° | | 30.00° | 2.82 nmi |
| Ch 3: | p HV | | 30.00° | | 30.00° | 2.82 nmi |
| Ch 4: | p HH | | 30.00° | | 30.00° | 2.82 nmi |

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 15

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

| | Latitude | Longitude | | No. | Latitude | Longitude | Altitude |
|----------|------------|------------|--|----------|------------|------------|-----------|
| FROM: | N 32:36.42 | W 80:04.73 | | Start | N 46:40.68 | W 68:34.84 | 660 ft |
| Line-up: | N 46:32.53 | W 68:48.17 | | Main | N 46:44.73 | W 68:30.56 | 660 ft |
| Start: | N 46:42.25 | W 68:37.97 | | Last | N 46:48.77 | W 68:26.28 | 660 ft |
| End: | N 46:50.34 | W 68:29.42 | | | | | |
| TO: | N 58:57.94 | W 49:34.83 | | | | | |
| | | | | Tgt Trk: | 0.0° | Vel: | 0.0 knots |

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

| | | | | | |
|------------|------------|----------------|------------|--------------|--------|
| X Offset: | 5.26 ft | Alt over tgt: | 9340.00 ft | Des Trk: | 35.94° |
| Cmp Grg: | 2.66 nmi | Ant Dep ang: | 25.00° | Look: | Right |
| Cmp Alt: | 9340.00 ft | Est time: | 2:24 min | Resolution: | |
| Map Len: | 10.00 nmi | MCP Slt rng: | 3.07 nmi | Swath Width: | Single |
| Strip Len: | 10.00 nmi | Strip Len Pad: | 0.00 nmi | | |
| Req Pndr: | 0.00 ft | Beg Squint: | 90.00° | End Squint: | 90.00° |
| RgGtDlt: | 0.00 ft | AdjGnd Scene: | 5000.00 ft | | |

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U3A

| | | | |
|---------------------|----------------------------|---------------------|-------------------|
| Starting Frequency: | 215.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |
| Notches: | | Predistortion Type: | UWB Amplitude fix |
| 1) | 1 MHz Bandwidth Centered @ | 242.9 MHz, Depth @ | 9.3 dB |
| 2) | 1 MHz Bandwidth Centered @ | 255.3 MHz, Depth @ | 9.3 dB |

Receive Chirp File: CRL1N0A

| | | | |
|---------------------|------------|---------|---------------|
| Starting Frequency: | 1405.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |

Channel Settings:

| | Wv/Pol | Swth | Cent Ang | Tgt | Dep Ang | Starting Range |
|-------|--------|------|----------|-----|---------|----------------|
| Ch 1: | p VV | | 30.00° | | 30.00° | 2.82 nmi |
| Ch 2: | p VH | | 30.00° | | 30.00° | 2.82 nmi |
| Ch 3: | p HV | | 30.00° | | 30.00° | 2.82 nmi |
| Ch 4: | p HH | | 30.00° | | 30.00° | 2.82 nmi |

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 17

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

| | Latitude | Longitude | | Latitude | Longitude | Altitude |
|----------|------------|------------|----------|------------|------------|-----------|
| FROM: | N 58:54.63 | W 49:29.68 | No. | N 46:48.76 | W 68:26.27 | 660 ft |
| Line-up: | N 46:56.89 | W 68:12.83 | Start | N 46:44.73 | W 68:30.56 | 660 ft |
| Start: | N 46:47.20 | W 68:23.14 | Main | N 46:40.69 | W 68:34.84 | 660 ft |
| End: | N 46:39.11 | W 68:31.69 | Last | | | |
| TO: | N 32:33.55 | W 79:58.52 | Tgt Trk: | 0.0° | Vel: | 0.0 knots |

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

| | | | | | |
|------------|------------|----------------|------------|--------------|---------|
| X Offset: | 5.25 ft | Alt over tgt: | 9340.00 ft | Des Trk: | 216.06° |
| Cmp Grg: | 2.66 nmi | Ant Dep ang: | 25.00° | Look: | Right |
| Cmp Alt: | 9340.00 ft | Est time: | 2:24 min | Resolution: | |
| Map Len: | 10.00 nmi | MCP Slt rng: | 3.07 nmi | Swath Width: | Single |
| Strip Len: | 10.00 nmi | Strip Len Pad: | 0.00 nmi | | |
| Req Pndr: | 0.00 ft | Beg Squint: | 90.00° | End Squint: | 90.00° |
| RgGtDlt: | 0.00 ft | AdjGnd Scene: | 5000.00 ft | | |

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U2A

| | | | |
|--------------------------------|-----------|---------------------|-------------------|
| Starting Frequency: | 215.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |
| Notches: | | Predistortion Type: | UWB Amplitude fix |
| 1) 1 MHz Bandwidth Centered @ | 242.9 MHz | Depth @ | 9.3 dB |
| 2) 1 MHz Bandwidth Centered @ | 255.3 MHz | Depth @ | 9.3 dB |

Receive Chirp File: CRL1N0A

| | | | |
|---------------------|------------|---------|---------------|
| Starting Frequency: | 1405.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |

Channel Settings:

| | Wv/Pol | Swth | Cent Ang | Tgt | Dep Ang | Starting Range |
|-------|--------|------|----------|-----|---------|----------------|
| Ch 1: | p VV | | 30.00° | | 30.00° | 2.82 nmi |
| Ch 2: | p VH | | 30.00° | | 30.00° | 2.82 nmi |
| Ch 3: | p HV | | 30.00° | | 30.00° | 2.82 nmi |
| Ch 4: | p HH | | 30.00° | | 30.00° | 2.82 nmi |

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 19

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

| | Latitude | Longitude | | No. | Latitude | Longitude | Altitude |
|----------|------------|------------|--|----------|------------|------------|-----------|
| FROM: | N 30:07.77 | W 70:33.39 | | Start | N 46:39.76 | W 68:31.33 | 660 ft |
| Line-up: | N 46:28.10 | W 68:36.99 | | Main | N 46:44.73 | W 68:30.56 | 660 ft |
| Start: | N 46:40.03 | W 68:35.18 | | Last | N 46:49.70 | W 68:29.80 | 660 ft |
| End: | N 46:49.97 | W 68:33.66 | | | | | |
| TO: | N 63:14.52 | W 64:46.60 | | | | | |
| | | | | Tgt Trk: | 0.0° | Vel: | 0.0 knots |

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

| | | | | | |
|------------|------------|----------------|------------|--------------|--------|
| X Offset: | 6.32 ft | Alt over tgt: | 9340.00 ft | Des Trk: | 5.99° |
| Cmp Grg: | 2.67 nmi | Ant Dep ang: | 25.00° | Look: | Right |
| Cmp Alt: | 9340.00 ft | Est time: | 2:24 min | Resolution: | |
| Map Len: | 10.00 nmi | MCP Slt rng: | 3.07 nmi | Swath Width: | Single |
| Strip Len: | 10.00 nmi | Strip Len Pad: | 0.00 nmi | | |
| Req Pndr: | 0.00 ft | Beg Squint: | 90.00° | End Squint: | 90.00° |
| RgGtDlt: | 0.00 ft | AdjGnd Scene: | 5000.00 ft | | |

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U3A

| | | | |
|---------------------|----------------------------|---------------------|-------------------|
| Starting Frequency: | 215.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |
| Notches: | | Predistortion Type: | UWB Amplitude fix |
| 1) | 1 MHz Bandwidth Centered @ | 242.9 MHz, Depth @ | 9.3 dB |
| 2) | 1 MHz Bandwidth Centered @ | 255.3 MHz, Depth @ | 9.3 dB |

Receive Chirp File: CRL1N0A

| | | | |
|---------------------|------------|---------|---------------|
| Starting Frequency: | 1405.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |

Channel Settings:

| | Wv/Pol | Swth Cent Ang | Tgt Dep Ang | Starting Range |
|-------|--------|---------------|-------------|----------------|
| Ch 1: | p VV | 30.00° | 30.00° | 2.82 nmi |
| Ch 2: | p VH | 30.00° | 30.00° | 2.82 nmi |
| Ch 3: | p HV | 30.00° | 30.00° | 2.82 nmi |
| Ch 4: | p HH | 30.00° | 30.00° | 2.82 nmi |

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 21

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

| | Latitude | Longitude |
|----------|------------|------------|
| FROM: | N 63:13.96 | W 64:38.93 |
| Line-up: | N 47:01.35 | W 68:24.11 |
| Start: | N 46:49.42 | W 68:25.95 |
| End: | N 46:39.48 | W 68:27.47 |
| TO: | N 30:07.21 | W 70:25.69 |

| No. | Latitude | Longitude | Altitude |
|---------------|------------|----------------|----------|
| Start | N 46:49.70 | W 68:29.80 | 660 ft |
| Main | N 46:44.73 | W 68:30.56 | 660 ft |
| Last | N 46:39.76 | W 68:31.33 | 660 ft |
| Tgt Trk: 0.0° | | Vel: 0.0 knots | |

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

| | | | | | |
|------------|------------|----------------|------------|--------------|---------|
| X Offset: | 6.34 ft | Alt over tgt: | 9340.00 ft | Des Trk: | 186.01° |
| Cmp Grg: | 2.66 nmi | Ant Dep ang: | 25.00° | Look: | Right |
| Cmp Alt: | 9340.00 ft | Est time: | 2:24 min | Resolution: | |
| Map Len: | 10.00 nmi | MCP Slt rng: | 3.07 nmi | Swath Width: | Single |
| Strip Len: | 10.00 nmi | Strip Len Pad: | 0.00 nmi | | |
| Req Pndr: | 0.00 ft | Beg Squint: | 90.00° | End Squint: | 90.00° |
| RgGtDlt: | 0.00 ft | AdjGnd Scene: | 5000.00 ft | | |

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U2A

| | | | |
|--------------------------------|--------------------|---------------------|-------------------|
| Starting Frequency: | 215.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |
| Notches: | | Predistortion Type: | UWB Amplitude fix |
| 1) 1 MHz Bandwidth Centered @ | 242.9 MHz, Depth @ | 9.3 dB | |
| 2) 1 MHz Bandwidth Centered @ | 255.3 MHz, Depth @ | 9.3 dB | |

Receive Chirp File: CRL1N0A

| | | | |
|---------------------|------------|---------|---------------|
| Starting Frequency: | 1405.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |

Channel Settings:

| | Wv/Pol | Swth | Cent Ang | Tgt | Dep Ang | Starting Range |
|-------|--------|------|----------|-----|---------|----------------|
| Ch 1: | p VV | | 30.00° | | 30.00° | 2.82 nmi |
| Ch 2: | p VH | | 30.00° | | 30.00° | 2.82 nmi |
| Ch 3: | p HV | | 30.00° | | 30.00° | 2.82 nmi |
| Ch 4: | p HH | | 30.00° | | 30.00° | 2.82 nmi |

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 23

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

| | Latitude | Longitude | | No. | Latitude | Longitude | Altitude |
|----------|------------|------------|--|----------|------------|------------|-----------|
| FROM: | N 35:34.36 | W 52:00.47 | | Start | N 46:41.79 | W 68:24.68 | 660 ft |
| Line-up: | N 46:32.56 | W 68:12.91 | | Main | N 46:44.73 | W 68:30.56 | 660 ft |
| Start: | N 46:39.64 | W 68:26.96 | | Last | N 46:47.66 | W 68:36.46 | 660 ft |
| End: | N 46:45.51 | W 68:38.72 | | | | | |
| TO: | N 54:22.90 | W 91:55.23 | | | | | |
| | | | | Tgt Trk: | 0.0° | Vel: | 0.0 knots |

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

| | | | | | |
|------------|------------|----------------|------------|--------------|---------|
| X Offset: | 9.40 ft | Alt over tgt: | 9340.00 ft | Des Trk: | 306.05° |
| Cmp Grg: | 2.66 nmi | Ant Dep ang: | 25.00° | Look: | Right |
| Cmp Alt: | 9340.00 ft | Est time: | 2:24 min | Resolution: | |
| Map Len: | 10.00 nmi | MCP Slt rng: | 3.07 nmi | Swath Width: | Single |
| Strip Len: | 10.00 nmi | Strip Len Pad: | 0.00 nmi | | |
| Req Pndr: | 0.00 ft | Beg Squint: | 90.00° | End Squint: | 90.00° |
| RgGtDlt: | 0.00 ft | AdjGnd Scene: | 5000.00 ft | | |

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U3A

| | | | |
|---------------------|----------------------------|---------------------|-------------------|
| Starting Frequency: | 215.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |
| Notches: | | Predistortion Type: | UWB Amplitude fix |
| 1) | 1 MHz Bandwidth Centered @ | 242.9 MHz, Depth @ | 9.3 dB |
| 2) | 1 MHz Bandwidth Centered @ | 255.3 MHz, Depth @ | 9.3 dB |

Receive Chirp File: CRL1N0A

| | | | |
|---------------------|------------|---------|---------------|
| Starting Frequency: | 1405.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |

Channel Settings:

| | Wv/Pol | Swth | Cent Ang | Tgt | Dep Ang | Starting | Range |
|-------|--------|------|----------|-----|---------|----------|----------|
| Ch 1: | p VV | | 30.00° | | 30.00° | | 2.82 nmi |
| Ch 2: | p VH | | 30.00° | | 30.00° | | 2.82 nmi |
| Ch 3: | p HV | | 30.00° | | 30.00° | | 2.82 nmi |
| Ch 4: | p HH | | 30.00° | | 30.00° | | 2.82 nmi |

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 25

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

| | Latitude | Longitude | | Latitude | Longitude | Altitude |
|----------|------------|------------|----------|------------|------------|-----------|
| FROM: | N 54:27.42 | W 91:52.73 | No. | N 46:47.65 | W 68:36.46 | 660 ft |
| Line-up: | N 46:56.83 | W 68:48.36 | Start | N 46:44.73 | W 68:30.56 | 660 ft |
| Start: | N 46:49.80 | W 68:34.19 | Main | N 46:41.79 | W 68:24.68 | 660 ft |
| End: | N 46:43.93 | W 68:22.42 | Last | | | |
| TO: | N 35:38.07 | W 51:55.62 | Tgt Trk: | 0.0° | Vel: | 0.0 knots |

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

| | | | | | |
|------------|------------|----------------|------------|--------------|---------|
| X Offset: | 9.47 ft | Alt over tgt: | 9340.00 ft | Des Trk: | 125.95° |
| Cmp Grg: | 2.66 nmi | Ant Dep ang: | 25.00° | Look: | Right |
| Cmp Alt: | 9340.00 ft | Est time: | 2:24 min | Resolution: | |
| Map Len: | 10.00 nmi | MCP Slr rng: | 3.07 nmi | Swath Width: | Single |
| Strip Len: | 10.00 nmi | Strip Len Pad: | 0.00 nmi | | |
| Req Pndr: | 0.00 ft | Beg Squint: | 90.00° | End Squint: | 90.00° |
| RgGtDlt: | 0.00 ft | AdjGnd Scene: | 5000.00 ft | | |

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U3A

| | | | |
|--------------------------------|--------------------|---------------------|-------------------|
| Starting Frequency: | 215.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |
| Notches: | | Predistortion Type: | UWB Amplitude fix |
| 1) 1 MHz Bandwidth Centered @ | 242.9 MHz, Depth @ | 9.3 dB | |
| 2) 1 MHz Bandwidth Centered @ | 255.3 MHz, Depth @ | 9.3 dB | |

Receive Chirp File: CRL1N0A

| | | | |
|---------------------|------------|---------|---------------|
| Starting Frequency: | 1405.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |

Channel Settings:

| | Wv/Pol | Swth | Cent Ang | Tgt | Dep Ang | Starting Range |
|-------|--------|------|----------|-----|---------|----------------|
| Ch 1: | p VV | | 30.00° | | 30.00° | 2.82 nmi |
| Ch 2: | p VH | | 30.00° | | 30.00° | 2.82 nmi |
| Ch 3: | p HV | | 30.00° | | 30.00° | 2.82 nmi |
| Ch 4: | p HH | | 30.00° | | 30.00° | 2.82 nmi |

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 27

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

| | Latitude | Longitude |
|----------|------------|------------|
| FROM: | N 31:10.38 | W 60:44.66 |
| Line-up: | N 46:28.11 | W 68:24.09 |
| Start: | N 46:39.08 | W 68:31.14 |
| End: | N 46:48.21 | W 68:37.06 |
| TO: | N 61:16.22 | W 82:32.56 |

| | No. | Latitude | Longitude | Altitude |
|--|----------|------------|------------|-----------|
| | Start | N 46:40.16 | W 68:27.61 | 660 ft |
| | Main | N 46:44.73 | W 68:30.56 | 660 ft |
| | Last | N 46:49.29 | W 68:33.53 | 660 ft |
| | Tgt Trk: | 0.0° | Vel: | 0.0 knots |

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

| | | | | | |
|------------|------------|----------------|------------|--------------|---------|
| X Offset: | 4.72 ft | Alt over tgt: | 9340.00 ft | Des Trk: | 336.03° |
| Cmp Grg: | 2.67 nmi | Ant Dep ang: | 25.00° | Look: | Right |
| Cmp Alt: | 9340.00 ft | Est time: | 2:24 min | Resolution: | |
| Map Len: | 10.00 nmi | MCP Slt rng: | 3.07 nmi | Swath Width: | Single |
| Strip Len: | 10.00 nmi | Strip Len Pad: | 0.00 nmi | | |
| Req Pndr: | 0.00 ft | Beg Squint: | 90.00° | End Squint: | 90.00° |
| RgGtDlt: | 0.00 ft | AdjGnd Scene: | 5000.00 ft | | |

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U3A

| | | | |
|---------------------|----------------------------|---------------------|-------------------|
| Starting Frequency: | 215.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |
| Notches: | | Predistortion Type: | UWB Amplitude fix |
| 1) | 1 MHz Bandwidth Centered @ | 242.9 MHz, Depth @ | 9.3 dB |
| 2) | 1 MHz Bandwidth Centered @ | 255.3 MHz, Depth @ | 9.3 dB |

Receive Chirp File: CRL1N0A

| | | | |
|---------------------|------------|---------|---------------|
| Starting Frequency: | 1405.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |

Channel Settings:

| | Wv/Pol | Swth | Cent Ang | Tgt | Dep Ang | Starting Range |
|-------|--------|------|----------|-----|---------|----------------|
| Ch 1: | p VV | | 30.00° | | 30.00° | 2.82 nmi |
| Ch 2: | p VH | | 30.00° | | 30.00° | 2.82 nmi |
| Ch 3: | p HV | | 30.00° | | 30.00° | 2.82 nmi |
| Ch 4: | p HH | | 30.00° | | 30.00° | 2.82 nmi |

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 29

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

| | Latitude | Longitude | | Latitude | Longitude | Altitude |
|----------|------------|------------|----------|------------|------------|-----------|
| FROM: | N 61:18.45 | W 82:26.03 | No. | | | |
| Line-up: | N 47:01.32 | W 68:37.14 | Start | N 46:49.29 | W 68:33.54 | 660 ft |
| Start: | N 46:50.37 | W 68:30.00 | Main | N 46:44.73 | W 68:30.56 | 660 ft |
| End: | N 46:41.24 | W 68:24.09 | Last | N 46:40.16 | W 68:27.60 | 660 ft |
| TO: | N 31:12.45 | W 60:37.70 | Tgt Trk: | 0.0° | Vel: | 0.0 knots |

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

| | | | | | |
|------------|------------|----------------|------------|--------------|---------|
| X Offset: | 4.72 ft | Alt over tgt: | 9340.00 ft | Des Trk: | 155.97° |
| Cmp Grg: | 2.66 nmi | Ant Dep ang: | 25.00° | Look: | Right |
| Cmp Alt: | 9340.00 ft | Est time: | 2:24 min | Resolution: | |
| Map Len: | 10.00 nmi | MCP Slt rng: | 3.07 nmi | Swath Width: | Single |
| Strip Len: | 10.00 nmi | Strip Len Pad: | 0.00 nmi | | |
| Req Pndr: | 0.00 ft | Beg Squint: | 90.00° | End Squint: | 90.00° |
| RgGtDlt: | 0.00 ft | AdjGnd Scene: | 5000.00 ft | | |

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U2A

| | | | |
|---------------------|----------------------------|---------------------|-------------------|
| Starting Frequency: | 215.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |
| Notches: | | Predistortion Type: | UWB Amplitude fix |
| 1) | 1 MHz Bandwidth Centered @ | 242.9 MHz, Depth @ | 9.3 dB |
| 2) | 1 MHz Bandwidth Centered @ | 255.3 MHz, Depth @ | 9.3 dB |

Receive Chirp File: CRL1N0A

| | | | |
|---------------------|------------|---------|---------------|
| Starting Frequency: | 1405.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |

Channel Settings:

| | Wv/Pol | Swth | Cent Ang | Tgt | Dep Ang | Starting | Range |
|-------|--------|------|----------|-----|---------|----------|-------|
| Ch 1: | p VV | | 30.00° | | 30.00° | 2.82 | nmi |
| Ch 2: | p VH | | 30.00° | | 30.00° | 2.82 | nmi |
| Ch 3: | p HV | | 30.00° | | 30.00° | 2.82 | nmi |
| Ch 4: | p HH | | 30.00° | | 30.00° | 2.82 | nmi |

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 31

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

| | Latitude | Longitude |
|----------|------------|------------|
| FROM: | N 42:35.36 | W 45:46.22 |
| Line-up: | N 46:39.64 | W 68:04.86 |
| Start: | N 46:40.93 | W 68:22.18 |
| End: | N 46:41.98 | W 68:36.64 |
| TO: | N 45:52.64 | W 92:35.19 |

Target: CALCS

| | No. | Latitude | Longitude | Altitude |
|--|-------|------------|------------|----------------|
| | Start | N 46:43.76 | W 68:21.75 | 802 ft |
| | Main | N 46:44.29 | W 68:28.98 | 802 ft |
| | Last | N 46:44.81 | W 68:36.21 | 802 ft |
| | | Tgt Trk: | 0.0° | Vel: 0.0 knots |

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

| | | | | | |
|------------|------------|----------------|------------|--------------|---------|
| X Offset: | 24.53 ft | Alt over tgt: | 9198.00 ft | Des Trk: | 276.08° |
| Cmp Grg: | 2.85 nmi | Ant Dep ang: | 25.00° | Look: | Right |
| Cmp Alt: | 9198.00 ft | Est time: | 2:24 min | Resolution: | |
| Map Len: | 10.00 nmi | MCP Slt rng: | 3.22 nmi | Swath Width: | Single |
| Strip Len: | 10.00 nmi | Strip Len Pad: | 0.00 nmi | | |
| Req Pndr: | 0.00 ft | Beg Squint: | 90.00° | End Squint: | 90.00° |
| RgGtDlt: | 0.00 ft | AdjGnd Scene: | 5000.00 ft | | |

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL2U2A

| | | | |
|--------------------------------|-----------|---------------------|-------------------|
| Starting Frequency: | 215.0 MHz | Rate: | 19.4 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |
| Notches: | | Predistortion Type: | UWB Amplitude fix |
| 1) 1 MHz Bandwidth Centered @ | 242.9 MHz | Depth @ | 9.3 dB |

Receive Chirp File: CRL2N0A

| | | | |
|---------------------|------------|---------|---------------|
| Starting Frequency: | 1405.0 MHz | Rate: | 19.4 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |

Channel Settings:

| | Wv/Pol | Swth | Cent Ang | Tgt | Dep Ang | Starting Range |
|-------|--------|--------|----------|--------|---------|----------------|
| Ch 1: | p VV | 28.00° | | 28.00° | | 2.69 nmi |
| Ch 2: | p VH | 28.00° | | 28.00° | | 2.69 nmi |
| Ch 3: | p HV | 28.00° | | 28.00° | | 2.69 nmi |
| Ch 4: | p HH | 28.00° | | 28.00° | | 2.69 nmi |

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 33

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: SIG

| | Latitude | Longitude | | No. | Latitude | Longitude | Altitude |
|----------|------------|------------|--|----------|------------|------------|-----------|
| FROM: | N 42:35.97 | W 45:47.31 | | Start | N 46:44.44 | W 68:23.07 | 660 ft |
| Line-up: | N 46:40.30 | W 68:06.18 | | Main | N 46:44.97 | W 68:30.30 | 660 ft |
| Start: | N 46:41.59 | W 68:23.50 | | Last | N 46:45.49 | W 68:37.53 | 660 ft |
| End: | N 46:42.64 | W 68:37.97 | | | | | |
| TO: | N 45:53.24 | W 92:36.79 | | | | | |
| | | | | Tgt Trk: | 0.0° | Vel: | 0.0 knots |

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

| | | | | | |
|------------|------------|----------------|------------|--------------|---------|
| X Offset: | 24.71 ft | Alt over tgt: | 6340.00 ft | Des Trk: | 276.08° |
| Cmp Grg: | 2.87 nmi | Ant Dep ang: | 25.00° | Look: | Right |
| Cmp Alt: | 6340.00 ft | Est time: | 2:24 min | Resolution: | |
| Map Len: | 10.00 nmi | MCP Slt rng: | 3.05 nmi | Swath Width: | Single |
| Strip Len: | 10.00 nmi | Strip Len Pad: | 0.00 nmi | | |
| Req Pndr: | 0.00 ft | Beg Squint: | 90.00° | End Squint: | 90.00° |
| RgGtDlt: | 0.00 ft | AdjGnd Scene: | 5000.00 ft | | |

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U2A

| | | | |
|--------------------------------|--------------------|---------------------|-------------------|
| Starting Frequency: | 215.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |
| Notches: | | Predistortion Type: | UWB Amplitude fix |
| 1) 1 MHz Bandwidth Centered @ | 242.9 MHz, Depth @ | 9.3 dB | |
| 2) 1 MHz Bandwidth Centered @ | 255.3 MHz, Depth @ | 9.3 dB | |

Receive Chirp File: CRL1NOA

| | | | |
|---------------------|------------|---------|---------------|
| Starting Frequency: | 1405.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |

Channel Settings:

| | Wv/Pol | Swth | Cent Ang | Tgt | Dep Ang | Starting Range |
|-------|--------|------|----------|-----|---------|----------------|
| Ch 1: | p VV | | 20.00° | | 20.00° | 2.80 nmi |
| Ch 2: | p VH | | 20.00° | | 20.00° | 2.80 nmi |
| Ch 3: | p HV | | 20.00° | | 20.00° | 2.80 nmi |
| Ch 4: | p HH | | 20.00° | | 20.00° | 2.80 nmi |

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 35

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

| | Latitude | Longitude | | No. | Latitude | Longitude | Altitude |
|----------|------------|------------|--|----------|------------|------------|-----------|
| FROM: | N 30:07.84 | W 70:34.28 | | Start | N 46:39.76 | W 68:31.33 | 660 ft |
| Line-up: | N 46:28.17 | W 68:37.88 | | Main | N 46:44.73 | W 68:30.56 | 660 ft |
| Start: | N 46:40.10 | W 68:36.07 | | Last | N 46:49.70 | W 68:29.80 | 660 ft |
| End: | N 46:50.04 | W 68:34.55 | | | | | |
| TO: | N 63:14.58 | W 64:47.49 | | | | | |
| | | | | Tgt Trk: | 0.0° | Vel: | 0.0 knots |

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

| | | | | | |
|------------|------------|----------------|------------|--------------|--------|
| X Offset: | 9.61 ft | Alt over tgt: | 5340.00 ft | Des Trk: | 5.99° |
| Cmp Grg: | 3.28 nmi | Ant Dep ang: | 25.00° | Look: | Right |
| Cmp Alt: | 5340.00 ft | Est time: | 2:24 min | Resolution: | |
| Map Len: | 10.00 nmi | MCP Slt rng: | 3.40 nmi | Swath Width: | Single |
| Strip Len: | 10.00 nmi | Strip Len Pad: | 0.00 nmi | | |
| Req Pndr: | 0.00 ft | Beg Squint: | 90.00° | End Squint: | 90.00° |
| RgGtDlt: | 0.00 ft | AdjGnd Scene: | 5000.00 ft | | |

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U3A

| | | | |
|---------------------|--|---------------------|-------------------|
| Starting Frequency: | 215.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |
| Notches: | | Predistortion Type: | UWB Amplitude fix |
| 1) | 1 MHz Bandwidth Centered @ 242.9 MHz, Depth @ 9.3 dB | | |
| 2) | 1 MHz Bandwidth Centered @ 255.3 MHz, Depth @ 9.3 dB | | |

Receive Chirp File: CRL1N0A

| | | | |
|---------------------|------------|---------|---------------|
| Starting Frequency: | 1405.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |

Channel Settings:

| | Wv/Pol | Swth Cent Ang | Tgt Dep Ang | Starting Range |
|-------|--------|---------------|-------------|----------------|
| Ch 1: | p VV | 15.00° | 15.00° | 3.14 nmi |
| Ch 2: | p VH | 15.00° | 15.00° | 3.14 nmi |
| Ch 3: | p HV | 15.00° | 15.00° | 3.14 nmi |
| Ch 4: | p HH | 15.00° | 15.00° | 3.14 nmi |

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 37

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

| | Latitude | Longitude | | No. | Latitude | Longitude | Altitude |
|----------|------------|------------|-------|------------|------------|-----------|-----------|
| FROM: | N 63:13.90 | W 64:38.04 | | | | | |
| Line-up: | N 47:01.28 | W 68:23.22 | Start | N 46:49.70 | W 68:29.80 | 660 ft | |
| Start: | N 46:49.35 | W 68:25.06 | Main | N 46:44.73 | W 68:30.56 | 660 ft | |
| End: | N 46:39.41 | W 68:26.58 | Last | N 46:39.76 | W 68:31.33 | 660 ft | |
| TO: | N 30:07.15 | W 70:24.80 | | | | | |
| | | | | Tgt Trk: | 0.0° | Vel: | 0.0 knots |

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

| | | | | | |
|------------|------------|----------------|------------|--------------|---------|
| X Offset: | 9.62 ft | Alt over tgt: | 5340.00 ft | Des Trk: | 186.01° |
| Cmp Grg: | 3.28 nmi | Ant Dep ang: | 25.00° | Look: | Right |
| Cmp Alt: | 5340.00 ft | Est time: | 2:24 min | Resolution: | |
| Map Len: | 10.00 nmi | MCP Slt rng: | 3.40 nmi | Swath Width: | Single |
| Strip Len: | 10.00 nmi | Strip Len Pad: | 0.00 nmi | | |
| Req Pndr: | 0.00 ft | Beg Squint: | 90.00° | End Squint: | 90.00° |
| RgGtDlt: | 0.00 ft | AdjGnd Scene: | 5000.00 ft | | |

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U2A

| | | | |
|--------------------------------|-----------|---------------------|-------------------|
| Starting Frequency: | 215.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |
| Notches: | | Predistortion Type: | UWB Amplitude fix |
| 1) 1 MHz Bandwidth Centered @ | 242.9 MHz | Depth @ | 9.3 dB |
| 2) 1 MHz Bandwidth Centered @ | 255.3 MHz | Depth @ | 9.3 dB |

Receive Chirp File: CRL1NOA

| | | | |
|---------------------|------------|---------|---------------|
| Starting Frequency: | 1405.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |

Channel Settings:

| | Wv/Pol | Swth | Cent Ang | Tgt | Dep Ang | Starting Range |
|-------|--------|--------|----------|--------|---------|----------------|
| Ch 1: | p VV | 15.00° | | 15.00° | | 3.14 nmi |
| Ch 2: | p VH | 15.00° | | 15.00° | | 3.14 nmi |
| Ch 3: | p HV | 15.00° | | 15.00° | | 3.14 nmi |
| Ch 4: | p HH | 15.00° | | 15.00° | | 3.14 nmi |

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 39

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

| | Latitude | Longitude | | No. | Latitude | Longitude | Altitude |
|----------|------------|------------|----------|------------|------------|-----------|-----------|
| FROM: | N 31:10.14 | W 60:45.47 | | | | | |
| Line-up: | N 46:27.86 | W 68:24.91 | Start | N 46:40.16 | W 68:27.61 | 660 ft | |
| Start: | N 46:38.83 | W 68:31.96 | Main | N 46:44.73 | W 68:30.56 | 660 ft | |
| End: | N 46:47.96 | W 68:37.88 | Last | N 46:49.29 | W 68:33.53 | 660 ft | |
| TO: | N 61:15.96 | W 82:33.31 | | | | | |
| | | | Tgt Trk: | 0.0° | | Vel: | 0.0 knots |

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

| | | | | | |
|------------|------------|----------------|------------|--------------|---------|
| X Offset: | 6.69 ft | Alt over tgt: | 5340.00 ft | Des Trk: | 336.03° |
| Cmp Grg: | 3.28 nmi | Ant Dep ang: | 25.00° | Look: | Right |
| Cmp Alt: | 5340.00 ft | Est time: | 2:24 min | Resolution: | |
| Map Len: | 10.00 nmi | MCP Slt rng: | 3.40 nmi | Swath Width: | Single |
| Strip Len: | 10.00 nmi | Strip Len Pad: | 0.00 nmi | | |
| Req Pndr: | 0.00 ft | Beg Squint: | 90.00° | End Squint: | 90.00° |
| RgGtDlt: | 0.00 ft | AdjGnd Scene: | 5000.00 ft | | |

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U3A

| | | | |
|--------------------------------|-----------|---------------------|-------------------|
| Starting Frequency: | 215.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |
| Notches: | | Predistortion Type: | UWB Amplitude fix |
| 1) 1 MHz Bandwidth Centered @ | 242.9 MHz | Depth @ | 9.3 dB |
| 2) 1 MHz Bandwidth Centered @ | 255.3 MHz | Depth @ | 9.3 dB |

Receive Chirp File: CRL1NOA

| | | | |
|---------------------|------------|---------|---------------|
| Starting Frequency: | 1405.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |

Channel Settings:

| | Wv/Pol | Swth | Cent Ang | Tgt | Dep Ang | Starting Range |
|-------|--------|------|----------|-----|---------|----------------|
| Ch 1: | p VV | | 15.00° | | 15.00° | 3.14 nmi |
| Ch 2: | p VH | | 15.00° | | 15.00° | 3.14 nmi |
| Ch 3: | p HV | | 15.00° | | 15.00° | 3.14 nmi |
| Ch 4: | p HH | | 15.00° | | 15.00° | 3.14 nmi |

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 41

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

| | Latitude | Longitude | | No. | Latitude | Longitude | Altitude |
|----------|------------|------------|----------|-------|------------|------------|----------------|
| FROM: | N 61:18.71 | W 82:25.28 | | Start | N 46:49.29 | W 68:33.54 | 660 ft |
| Line-up: | N 47:01.57 | W 68:36.32 | | Main | N 46:44.73 | W 68:30.56 | 660 ft |
| Start: | N 46:50.62 | W 68:29.18 | | Last | N 46:40.16 | W 68:27.60 | 660 ft |
| End: | N 46:41.49 | W 68:23.26 | | | | | |
| TO: | N 31:12.69 | W 60:36.89 | | | | | |
| | | | Tgt Trk: | 0.0° | | | Vel: 0.0 knots |

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

| | | | | | |
|------------|------------|----------------|------------|--------------|---------|
| X Offset: | 6.68 ft | Alt over tgt: | 5340.00 ft | Des Trk: | 155.97° |
| Cmp Grg: | 3.28 nmi | Ant Dep ang: | 25.00° | Look: | Right |
| Cmp Alt: | 5340.00 ft | Est time: | 2:24 min | Resolution: | |
| Map Len: | 10.00 nmi | MCP Slt rng: | 3.40 nmi | Swath Width: | Single |
| Strip Len: | 10.00 nmi | Strip Len Pad: | 0.00 nmi | | |
| Req Pndr: | 0.00 ft | Beg Squint: | 90.00° | End Squint: | 90.00° |
| RgGtDlt: | 0.00 ft | AdjGnd Scene: | 5000.00 ft | | |

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U2A

| | | | |
|--------------------------------|---------------------------|---------------------|-------------------|
| Starting Frequency: | 215.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |
| Notches: | | Predistortion Type: | UWB Amplitude fix |
| 1) 1 MHz Bandwidth Centered @ | 242.9 MHz, Depth @ 9.3 dB | | |
| 2) 1 MHz Bandwidth Centered @ | 255.3 MHz, Depth @ 9.3 dB | | |

Receive Chirp File: CRL1NOA

| | | | |
|---------------------|------------|---------|---------------|
| Starting Frequency: | 1405.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |

Channel Settings:

| | Wv/Pol | Swth | Cent Ang | Tgt | Dep Ang | Starting Range |
|-------|--------|------|----------|-----|---------|----------------|
| Ch 1: | p VV | | 15.00° | | 15.00° | 3.14 nmi |
| Ch 2: | p VH | | 15.00° | | 15.00° | 3.14 nmi |
| Ch 3: | p HV | | 15.00° | | 15.00° | 3.14 nmi |
| Ch 4: | p HH | | 15.00° | | 15.00° | 3.14 nmi |

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 43

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

| | Latitude | Longitude | | No. | Latitude | Longitude | Altitude |
|----------|------------|------------|--|----------|------------|------------|-----------|
| FROM: | N 35:33.93 | W 52:01.04 | | Start | N 46:41.79 | W 68:24.68 | 660 ft |
| Line-up: | N 46:32.06 | W 68:13.43 | | Main | N 46:44.73 | W 68:30.56 | 660 ft |
| Start: | N 46:39.14 | W 68:27.49 | | Last | N 46:47.66 | W 68:36.46 | 660 ft |
| End: | N 46:45.01 | W 68:39.25 | | | | | |
| TO: | N 54:22.37 | W 91:55.52 | | | | | |
| | | | | Tgt Trk: | 0.0° | Vel: | 0.0 knots |

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

| | | | | | |
|------------|------------|----------------|------------|--------------|---------|
| X Offset: | 10.51 ft | Alt over tgt: | 5340.00 ft | Des Trk: | 306.05° |
| Cmp Grg: | 3.28 nmi | Ant Dep ang: | 25.00° | Look: | Right |
| Cmp Alt: | 5340.00 ft | Est time: | 2:24 min | Resolution: | |
| Map Len: | 10.00 nmi | MCP Slt rng: | 3.40 nmi | Swath Width: | Single |
| Strip Len: | 10.00 nmi | Strip Len Pad: | 0.00 nmi | | |
| Req Pndr: | 0.00 ft | Beg Squint: | 90.00° | End Squint: | 90.00° |
| RgGtDlt: | 0.00 ft | AdjGnd Scene: | 5000.00 ft | | |

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U3A

| | | | |
|--------------------------------|--------------------|---------------------|-------------------|
| Starting Frequency: | 215.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |
| Notches: | | Predistortion Type: | UWB Amplitude fix |
| 1) 1 MHz Bandwidth Centered @ | 242.9 MHz, Depth @ | 9.3 dB | |
| 2) 1 MHz Bandwidth Centered @ | 255.3 MHz, Depth @ | 9.3 dB | |

Receive Chirp File: CRL1NOA

| | | | |
|---------------------|------------|---------|---------------|
| Starting Frequency: | 1405.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |

Channel Settings:

| | Wv/Pol | Swth | Cent Ang | Tgt | Dep Ang | Starting Range |
|-------|--------|------|----------|-----|---------|----------------|
| Ch 1: | p VV | | 15.00° | | 15.00° | 3.14 nmi |
| Ch 2: | p VH | | 15.00° | | 15.00° | 3.14 nmi |
| Ch 3: | p HV | | 15.00° | | 15.00° | 3.14 nmi |
| Ch 4: | p HH | | 15.00° | | 15.00° | 3.14 nmi |

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 45

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

Target: GP

| | Latitude | Longitude |
|----------|------------|------------|
| FROM: | N 54:27.95 | W 91:52.44 |
| Line-up: | N 46:57.33 | W 68:47.84 |
| Start: | N 46:50.30 | W 68:33.66 |
| End: | N 46:44.43 | W 68:21.89 |
| TO: | N 35:38.50 | W 51:55.06 |

| No. | Latitude | Longitude | Altitude |
|----------|------------|------------|-----------|
| Start | N 46:47.65 | W 68:36.46 | 660 ft |
| Main | N 46:44.73 | W 68:30.56 | 660 ft |
| Last | N 46:41.79 | W 68:24.68 | 660 ft |
| Tgt Trk: | 0.0° | Vel: | 0.0 knots |

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

| | | | | | |
|------------|------------|----------------|------------|--------------|---------|
| X Offset: | 10.60 ft | Alt over tgt: | 5340.00 ft | Des Trk: | 125.95° |
| Cmp Grg: | 3.28 nmi | Ant Dep ang: | 25.00° | Look: | Right |
| Cmp Alt: | 5340.00 ft | Est time: | 2:24 min | Resolution: | |
| Map Len: | 10.00 nmi | MCP Slt rng: | 3.40 nmi | Swath Width: | Single |
| Strip Len: | 10.00 nmi | Strip Len Pad: | 0.00 nmi | | |
| Req Pndr: | 0.00 ft | Beg Squint: | 90.00° | End Squint: | 90.00° |
| RgGtDlt: | 0.00 ft | AdjGnd Scene: | 5000.00 ft | | |

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U3A

| | | | |
|--------------------------------|--------------------|---------------------|-------------------|
| Starting Frequency: | 215.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |
| Notches: | | Predistortion Type: | UWB Amplitude fix |
| 1) 1 MHz Bandwidth Centered @ | 242.9 MHz, Depth @ | 9.3 dB | |
| 2) 1 MHz Bandwidth Centered @ | 255.3 MHz, Depth @ | 9.3 dB | |

Receive Chirp File: CRL1N0A

| | | | |
|---------------------|------------|---------|---------------|
| Starting Frequency: | 1405.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |

Channel Settings:

| | Wv/Pol | Swth | Cent Ang | Tgt | Dep Ang | Starting | Range |
|-------|--------|------|----------|-----|---------|----------|-------|
| Ch 1: | p VV | | 15.00° | | 15.00° | 3.14 | nmi |
| Ch 2: | p VH | | 15.00° | | 15.00° | 3.14 | nmi |
| Ch 3: | p HV | | 15.00° | | 15.00° | 3.14 | nmi |
| Ch 4: | p HH | | 15.00° | | 15.00° | 3.14 | nmi |

Pre-pass Data Sheet

Date: 6/26/95

Line No.: 47

Miss Title: PORTAGE MAINE, DAY

Aircraft positions

| | Latitude | Longitude |
|----------|------------|------------|
| FROM: | N 42:35.05 | W 45:46.38 |
| Line-up: | N 46:39.29 | W 68:04.91 |
| Start: | N 46:40.59 | W 68:22.23 |
| End: | N 46:41.63 | W 68:36.69 |
| TO: | N 45:52.31 | W 92:35.10 |

Target: CALCS

| | No. | Latitude | Longitude | Altitude |
|--|-------|------------|------------|----------------|
| | Start | N 46:43.76 | W 68:21.75 | 802 ft |
| | Main | N 46:44.29 | W 68:28.98 | 802 ft |
| | Last | N 46:44.81 | W 68:36.21 | 802 ft |
| | | Tgt Trk: | 0.0° | Vel: 0.0 knots |

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

| | | | | | |
|------------|------------|----------------|------------|--------------|---------|
| X Offset: | 27.30 ft | Alt over tgt: | 5198.00 ft | Des Trk: | 276.08° |
| Cmp Grg: | 3.19 nmi | Ant Dep ang: | 25.00° | Look: | Right |
| Cmp Alt: | 5198.00 ft | Est time: | 2:24 min | Resolution: | |
| Map Len: | 10.00 nmi | MCP Slt rng: | 3.31 nmi | Swath Width: | Single |
| Strip Len: | 10.00 nmi | Strip Len Pad: | 0.00 nmi | | |
| Req Pndr: | 0.00 ft | Beg Squint: | 90.00° | End Squint: | 90.00° |
| RgGtDlt: | 0.00 ft | AdjGnd Scene: | 5000.00 ft | | |

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CTL1U2A

| | | | |
|--------------------------------|-----------|---------------------|-------------------|
| Starting Frequency: | 215.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |
| Notches: | | Predistortion Type: | UWB Amplitude fix |
| 1) 1 MHz Bandwidth Centered @ | 242.9 MHz | Depth @ | 9.3 dB |
| 2) 1 MHz Bandwidth Centered @ | 255.3 MHz | Depth @ | 9.3 dB |

Receive Chirp File: CRL1N0A

| | | | |
|---------------------|------------|---------|---------------|
| Starting Frequency: | 1405.0 MHz | Rate: | 26.3 MHz/uSec |
| Sampling Frequency: | 800.0 MHz | Length: | 0.0 uSec |

Channel Settings:

| | Wv/Pol | Swth | Cent Ang | Tgt | Dep Ang | Starting | Range |
|-------|--------|--------|----------|--------|---------|----------|-------|
| Ch 1: | p VV | 15.00° | | 15.00° | | 3.05 | nmi |
| Ch 2: | p VH | 15.00° | | 15.00° | | 3.05 | nmi |
| Ch 3: | p HV | 15.00° | | 15.00° | | 3.05 | nmi |
| Ch 4: | p HH | 15.00° | | 15.00° | | 3.05 | nmi |

Post-pass Data Sheets

26 Jun 1995
Tape: E1421

Post-line Data Sheet
Line 3
Mission: PORTAGE MAINE, DAY
UWB Synthetic Target

Time: 177:20:25:58
Pass 1
Req.# 0

AIRCRAFT & CHANNEL DATA

| <u>Altitude</u> | | | <u>CH 1</u> | <u>CH 2</u> | <u>CH 3</u> | <u>CH 4</u> |
|-----------------|----------|----------------|-------------|-------------|-------------|-------------|
| Desired: | 13500 ft | Wave/Pol.: | p-VV | p-VH | p-HV | p-HH |
| Baro: | 13499 ft | Swath Ctr Ang: | 45.0° | 45.0° | 45.0° | 45.0° |
| Slt. rng: | 18159 ft | Tgt Dep Ang: | 45.0° | 45.0° | 45.0° | 45.0° |
| Look: | Right | St rng (ft): | 16624 | 16624 | 16624 | 16624 |
| Depr Ang: | 25.0° | Near Rng Dep: | 54.3° | 54.3° | 54.3° | 54.3° |
| Des. trk: | 6.0° | Far Rng Dep: | 24.3° | 24.3° | 24.3° | 24.3° |
| Start Sq: | 90.0° | Atten (dB): | 55.0 | 54.0 | 55.0 | 54.0 |
| End Sq: | 90.0° | | | | | |

WAYPOINTS

| | <u>Latitude</u> | <u>Longitude</u> | |
|----------|-----------------|------------------|---------------------------|
| Line_up: | N 46:28.05 | W 68:36.19 | Main Target: GP |
| Start: | N 46:39.98 | W 68:34.38 | Mocomp Point: |
| End: | N 46:49.92 | W 68:32.86 | Lat: N 46:44.73 |
| From: | N 30:07.71 | W 70:32.59 | Long: W 68:30.56 |
| To: | N 63:14.46 | W 64:45.81 | Tgt Trk: 0.0 Tgt Vel: 0.0 |
| | | | Alt: 660.0 ft |

RADAR PARAMETERS - for UWB

RTP Channel: 2
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is SLOW (350.0 kts)
Groundspeed: Real -> 350.0 kts
Mocomp Off for Chnl 1, 2, 3, 4
INS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

CAL POWER

X: 0.0
L: 0.0
C: 0.0
P: -12.8

ANT BIAS

Elevation: 0.0°
Azimuth: 0.0°
Pitch: 0.0°

Tape Footage

Starting: 197 ft (1)
Ending: 335 ft (1)

Vel Bias

X: 1035.0
Y: -433.0
Z: 6697.0

CAL Atten

X: 63.8 dB
L: 63.8 dB
C: 63.8 dB

LINE Map Time (UCT)

Start: 20:25:58
End: 20:25:59

Mocomp Counters

| | <u>Start</u> | |
|-------|-----------------|-----------------|
| Ch 1: | 28263 00006E67h | 29265 00007251h |
| Ch 2: | 28263 00006E67h | 29265 00007251h |
| Ch 3: | 28263 00006E67h | 29265 00007251h |
| Ch 4: | 28263 00006E67h | 29265 00007251h |

End

CPA (UCT): 00:00:00

Alt: 0 ft (GPS)

26 Jun 1995
Tape: E1421

Post-line Data Sheet
Line 1
Mission: PORTAGE MAINE, DAY

Time: 177:21:42:23
Pass 1
Req.# 1

AIRCRAFT & CHANNEL DATA

| | | | | | | |
|-----------|----------------|------------------|-------|-------|-------|-------|
| Altitude | | | CH 1 | CH 2 | CH 3 | CH 4 |
| Desired: | 13500 ft | Wave/Pol.: | X-HH | L-HH | C-HH | L-VV |
| Baro: | 13501 ft s.d.= | 4 Swath Ctr Ang: | 40.0° | 40.0° | 40.0° | 40.0° |
| Slt. rng: | 19975 ft | Tgt Dep Ang: | 40.0° | 40.0° | 40.0° | 40.0° |
| Look: | Right | St rng (ft): | 11915 | 11915 | 11915 | 11915 |
| Depr Ang: | 25.0° | Near Rng Dep: | 90.0° | 90.0° | 90.0° | 90.0° |
| Des. trk: | 6.0° | Far Rng Dep: | 28.8° | 28.8° | 28.8° | 28.8° |
| Start Sq: | 90.0° | Atten (dB): | 20.0 | 36.0 | 18.0 | 32.0 |
| End Sq: | 90.0° | RMS Video (%FS) | 7.1 | 24.5 | 21.4 | 33.7 |

WAYPOINTS

| | | | |
|----------|------------|------------|---------------------------|
| | Latitude | Longitude | |
| Line_up: | N 46:28.09 | W 68:36.78 | Main Target: GP |
| Start: | N 46:40.02 | W 68:34.97 | Mocomp Point: |
| End: | N 46:49.96 | W 68:33.45 | Lat: N 46:44.73 |
| From: | N 30:07.76 | W 70:33.18 | Long: W 68:30.56 |
| To: | N 63:14.50 | W 64:46.39 | Tgt Trk: 0.0 Tgt Vel: 0.0 |
| | | | Alt: 660.0 ft |

RADAR PARAMETERS - for XIC

RTP Channel: 1
Resolution: High
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 250.7 kts
Mocomp On
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF

Ave Ref Vel -> -.3 fps (s.d.= 2.0)
Ave Fil Vel -> -.2 fps (s.d.= 1.5)

| | | | |
|--------------|-----------------|------------------|-----------|
| NML XMIT PWR | ANT BIAS | Tape Footage | Drive no. |
| X: -32.3 | Elevation: 0.0° | Starting: 487 ft | (1) |
| L: -31.4 | Azimuth: 0.0° | Ending: 1535 ft | (1) |
| C: -37.4 | Pitch: 0.0° | | |
| P: -70.0 | | | |

| | | |
|-----------|------------|---------------------|
| Vel Bias | CAL Atten | LINE Map Time (UCT) |
| X: 1035.0 | X: 63.8 dB | Start: 21:42:23 |
| Y: -433.0 | L: 63.8 dB | End: 21:44:41 |
| Z: 6697.0 | C: 63.8 dB | |

Mocomp Counters

Start: 151096 00024E38h
End: 173099 0002A42Bh

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

26 Jun 1995
Tape: E1421

Post-line Data Sheet
Line 5
Mission: PORTAGE MAINE, DAY

Time: 177:21:52:40
Pass 2
Req.# 4

AIRCRAFT & CHANNEL DATA

| | | | | | | |
|-----------|----------------|------------------|-------|-------|-------|-------|
| Altitude | | CH 1 | CH 2 | CH 3 | CH 4 | |
| Desired: | 13500 ft | Wave/Pol.: | p-VV | p-VH | p-HV | p-HH |
| Baro: | 13422 ft s.d.= | 5 Swath Ctr Ang: | 45.0° | 45.0° | 45.0° | 45.0° |
| Slt. rng: | 18159 ft | Tgt Dep Ang: | 45.0° | 45.0° | 45.0° | 45.0° |
| Look: | Right | St rng (ft): | 16624 | 16624 | 16624 | 16624 |
| Depr Ang: | 25.0° | Near Rng Dep: | 53.8° | 53.8° | 53.8° | 53.8° |
| Des. trk: | 186.0° | Far Rng Dep: | 24.2° | 24.2° | 24.2° | 24.2° |
| Start Sq: | 90.0° | Atten (dB): | 50.0 | 57.0 | 50.0 | 57.0 |
| End Sq: | 90.0° | RMS Video (%FS) | 28.1 | 20.9 | 20.8 | 23.8 |

WAYPOINTS

| | Latitude | Longitude | |
|----------|------------|------------|---------------------------|
| Line_up: | N 47:01.40 | W 68:24.91 | Main Target: GP |
| Start: | N 46:49.48 | W 68:26.74 | Mocomp Point: |
| End: | N 46:39.53 | W 68:28.26 | Lat: N 46:44.73 |
| From: | N 63:14.02 | W 64:39.72 | Long: W 68:30.56 |
| To: | N 30:07.27 | W 70:26.48 | Tgt Trk: 0.0 Tgt Vel: 0.0 |
| | | | Alt: 660.0 ft |

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 250.3 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -1.5 fps (s.d.= 1.9)
Ave Fil Vel -> -.7 fps (s.d.= 1.5)

| NML XMIT PWR | ANT BIAS | Tape Footage | Drive no. |
|--------------|-----------------|-------------------|-----------|
| X: -70.0 | Elevation: 0.0° | Starting: 1548 ft | (1) |
| L: -70.0 | Azimuth: 0.0° | Ending: 2791 ft | (1) |
| C: -70.0 | Pitch: 0.0° | | |
| P: 46.9 | | | |

| | | |
|-----------|------------|---------------------|
| Vel Bias | CAL Atten | LINE Map Time (UCT) |
| X: 1035.0 | X: 63.8 dB | Start: 21:52:40 |
| Y: -433.0 | L: 63.8 dB | End: 21:55:20 |
| Z: 6697.0 | C: 63.8 dB | |

Mocomp Counters

Start: 206113 00032521h
End: 232945 00038DF1h

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

26 Jun 1995
Tape: E1421

Post-line Data Sheet
Line 3
Mission: PORTAGE MAINE, DAY

Time: 177:22:02:56
Pass 3
Req. # 3

AIRCRAFT & CHANNEL DATA

| | | | | | | |
|-----------|----------------|------------------|-------|-------|-------|-------|
| Altitude | | | CH 1 | CH 2 | CH 3 | CH 4 |
| Desired: | 13500 ft | Wave/Pol.: | p-VV | p-VH | p-HV | p-HH |
| Baro: | 13513 ft s.d.= | 6 Swath Ctr Ang: | 45.0° | 45.0° | 45.0° | 45.0° |
| Slt. rng: | 18159 ft | Tgt Dep Ang: | 45.0° | 45.0° | 45.0° | 45.0° |
| Look: | Right | St rng (ft): | 16624 | 16624 | 16624 | 16624 |
| Depr Ang: | 25.0° | Near Rng Dep: | 54.4° | 54.4° | 54.4° | 54.4° |
| Des. trk: | 6.0° | Far Rng Dep: | 24.4° | 24.4° | 24.4° | 24.4° |
| Start Sq: | 90.0° | Atten (dB): | 50.0 | 53.0 | 50.0 | 57.0 |
| End Sq: | 90.0° | RMS Video (%FS) | 29.4 | 23.0 | 22.9 | 23.8 |

WAYPOINTS

| | | |
|---------------------|------------|---------------------------|
| Latitude | Longitude | Main Target: GP |
| Line_up: N 46:28.05 | W 68:36.19 | Mocomp Point: |
| Start: N 46:39.98 | W 68:34.38 | Lat: N 46:44.73 |
| End: N 46:49.92 | W 68:32.86 | Long: W 68:30.56 |
| From: N 30:07.71 | W 70:32.59 | Tgt Trk: 0.0 Tgt Vel: 0.0 |
| To: N 63:14.46 | W 64:45.81 | Alt: 660.0 ft |

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 245.3 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> .5 fps (s.d.= 2.5)
Ave Fil Vel -> .7 fps (s.d.= 1.8)

| | | | |
|--------------|-----------------|-------------------|-----------|
| NML XMIT PWR | ANT BIAS | Tape Footage | Drive no. |
| X: -70.0 | Elevation: 0.0° | Starting: 2806 ft | (1) |
| L: -70.0 | Azimuth: 0.0° | Ending: 4038 ft | (1) |
| C: -70.0 | Pitch: 0.0° | | |
| P: 47.0 | | | |

| | | |
|-----------|------------|---------------------|
| Vel Bias | CAL Atten | LINE Map Time (UCT) |
| X: 1035.0 | X: 63.8 dB | Start: 22:02:56 |
| Y: -433.0 | L: 63.8 dB | End: 22:05:34 |
| Z: 6697.0 | C: 63.8 dB | |

Mocomp Counters

Start: 265131 00040BABh
End: 291631 0004732Fh

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

26 Jun 1995
Tape: E1421

Post-line Data Sheet
Line 7
Mission: PORTAGE MAINE, DAY

Time: 177:22:15:48
Pass 4
Req. # 5

AIRCRAFT & CHANNEL DATA

| | | | | | | |
|-----------|----------------|------------------|-------|-------|-------|-------|
| Altitude | | | CH 1 | CH 2 | CH 3 | CH 4 |
| Desired: | 13500 ft | Wave/Pol.: | p-VV | p-VH | p-HV | p-HH |
| Baro: | 13494 ft s.d.= | 4 Swath Ctr Ang: | 45.0° | 45.0° | 45.0° | 45.0° |
| Slt. rng: | 17958 ft | Tgt Dep Ang: | 45.0° | 45.0° | 45.0° | 45.0° |
| Look: | Right | St rng (ft): | 16424 | 16424 | 16424 | 16424 |
| Depr Ang: | 25.0° | Near Rng Dep: | 55.2° | 55.2° | 55.2° | 55.2° |
| Des. trk: | 276.0° | Far Rng Dep: | 24.5° | 24.5° | 24.5° | 24.5° |
| Start Sq: | 90.0° | Atten (dB): | 52.0 | 55.0 | 53.0 | 59.0 |
| End Sq: | 90.0° | RMS Video (%FS) | 29.8 | 27.4 | 21.7 | 25.3 |

WAYPOINTS

| | | |
|---------------------|------------|---------------------------|
| Latitude | Longitude | Main Target: CALCS |
| Line_up: N 46:40.39 | W 68:04.74 | Mocomp Point: |
| Start: N 46:41.68 | W 68:22.07 | Lat: N 46:44.29 |
| End: N 46:42.73 | W 68:36.53 | Long: W 68:28.98 |
| From: N 42:36.03 | W 45:45.85 | Tgt Trk: 0.0 Tgt Vel: 0.0 |
| To: N 45:53.35 | W 92:35.40 | Alt: 802.0 ft |

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 249.9 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> 1.6 fps (s.d.= 1.8)
Ave Fil Vel -> .8 fps (s.d.= 1.6)

| | | | |
|--------------|-----------------|-------------------|-----------|
| NML XMIT PWR | ANT BIAS | Tape Footage | Drive no. |
| X: -70.0 | Elevation: 0.0° | Starting: 4053 ft | (1) |
| L: -70.0 | Azimuth: 0.0° | Ending: 5303 ft | (1) |
| C: -70.0 | Pitch: 0.0° | | |
| P: 47.0 | | | |

Vel Bias CAI Atten
X: 1035.0 X: 63.8 dB
Y: -433.0 L: 63.8 dB
Z: 6697.0 C: 63.8 dB

LINE Map Time (UCT)
Start: 22:15:48
End: 22:18:30

Mocomp Counters

Start: 317331 0004D793h
End: 344671 0005425Fh

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

26 Jun 1995
Tape: E1421

Post-line Data Sheet
Line 9
Mission: PORTAGE MAINE, DAY

Time: 177:22:31:47
Pass 5
Req. # 6

AIRCRAFT & CHANNEL DATA

| | | | | | | |
|-----------|---------------|------------------|-------|-------|-------|-------|
| Altitude | | | CH 1 | CH 2 | CH 3 | CH 4 |
| Desired: | 10000 ft | Wave/Pol.: | p-VV | p-VH | p-HV | p-HH |
| Baro: | 9971 ft s.d.= | 5 Swath Ctr Ang: | 30.0° | 30.0° | 30.0° | 30.0° |
| Slt. rng: | 18396 ft | Tgt Dep Ang: | 30.0° | 30.0° | 30.0° | 30.0° |
| Look: | Right | St rng (ft): | 16861 | 16861 | 16861 | 16861 |
| Depr Ang: | 25.0° | Near Rng Dep: | 36.3° | 36.3° | 36.3° | 36.3° |
| Des. trk: | 276.0° | Far Rng Dep: | 17.6° | 17.6° | 17.6° | 17.6° |
| Start Sq: | 90.0° | Atten (dB): | 54.0 | 55.0 | 53.0 | 60.0 |
| End Sq: | 90.0° | RMS Video (%FS) | 25.6 | 24.9 | 22.8 | 26.0 |

WAYPOINTS

| | Latitude | Longitude | |
|----------|------------|------------|---------------------------|
| Line_up: | N 46:39.86 | W 68:04.82 | Main Target: CALCS |
| Start: | N 46:41.15 | W 68:22.15 | Mocomp Point: |
| End: | N 46:42.20 | W 68:36.61 | Lat: N 46:44.29 |
| From: | N 42:35.56 | W 45:46.11 | Long: W 68:28.98 |
| To: | N 45:52.85 | W 92:35.25 | Tgt Trk: 0.0 Tgt Vel: 0.0 |
| | | | Alt: 802.0 ft |

RADAR PARAMETERS - for UWB

| | | |
|----------------------|---------|--------------------------------|
| RTP Channel: | 1 | Filter damping is Hi -> 10 sec |
| Resolution: | N/A | PRF Factor is FAST (262.5 kts) |
| Swath width: | Single | Ave Gndspd: Real -> 252.7 kts |
| RMS Time Constant: | 2^7 | Mocomp Off for Chnl 1, 2, 3, 4 |
| Position Reference: | ON | GPS Vel/Pos Reference |
| Atten. Tracking: | OFF | Adj Gnd Scene: 5000.0 ft |
| Range Gate Delta: | 0.0 ft | Range Tracking is OFF |
| Azimuth Presum Rate: | Presum6 | Clutterlock Reference: OFF |
| TX Chirp Filename: | CTL1U2B | RX Chirp Filename: CRL1N0A |

Ave Ref Vel -> -.3 fps (s.d.= 1.5)
Ave Fil Vel -> -1.4 fps (s.d.= 1.2)

| NML XMIT PWR | ANT BIAS | Tape Footage | Drive no. |
|--------------|-----------------|-------------------|-----------|
| X: -70.0 | Elevation: 0.0° | Starting: 5318 ft | (1) |
| L: -70.0 | Azimuth: 0.0° | Ending: 6547 ft | (1) |
| C: -70.0 | Pitch: 0.0° | | |
| P: 47.0 | | | |

| | | |
|-----------|------------|---------------------|
| Vel Bias | CAL Atten | LINE Map Time (UCT) |
| X: 1035.0 | X: 63.8 dB | Start: 22:31:47 |
| Y: -433.0 | L: 63.8 dB | End: 22:34:27 |
| Z: 6697.0 | C: 63.8 dB | |

| Mocomp Counters | CPA (UCT): 00:00:00 |
|-------------------------|---------------------|
| Start: 367515 00059B9Bh | Alt: 0 ft (GPS) |
| End: 394364 0006047Ch | Lat: N 0:00: 0 |
| | Lon: E 0:00: 0 |

26 Jun 1995
Tape: E1421

Post-line Data Sheet
Line 11
Mission: PORTAGE MAINE, DAY

Time: 177:22:42:47
Pass 6
Req.# 7

AIRCRAFT & CHANNEL DATA

| | | | | | | |
|-----------|---------------|------------------|-------|-------|-------|-------|
| Altitude | | | CH 1 | CH 2 | CH 3 | CH 4 |
| Desired: | 10000 ft | Wave/Pol.: | p-VV | p-VH | p-HV | p-HH |
| Baro: | 9979 ft s.d.= | 3 Swath Ctr Ang: | 30.0° | 30.0° | 30.0° | 30.0° |
| Slt. rng: | 18680 ft | Tgt Dep Ang: | 30.0° | 30.0° | 30.0° | 30.0° |
| Look: | Right | St rng (ft): | 17141 | 17141 | 17141 | 17141 |
| Depr Ang: | 25.0° | Near Rng Dep: | 35.6° | 35.6° | 35.6° | 35.6° |
| Des. trk: | 66.0° | Far Rng Dep: | 17.5° | 17.5° | 17.5° | 17.5° |
| Start Sq: | 90.0° | Atten (dB): | 50.0 | 52.0 | 53.0 | 57.0 |
| End Sq: | 90.0° | RMS Video (%FS) | 34.0 | 30.7 | 20.5 | 28.1 |

WAYPOINTS

| | Latitude | Longitude | |
|----------|------------|------------|---------------------------|
| Line_up: | N 46:40.21 | W 68:54.68 | Main Target: GP |
| Start: | N 46:45.12 | W 68:38.78 | Mocomp Point: |
| End: | N 46:49.19 | W 68:25.49 | Lat: N 46:44.73 |
| From: | N 38:11.70 | W 87:57.28 | Long: W 68:30.56 |
| To: | N 51:06.09 | W 43:59.16 | Tgt Trk: 0.0 Tgt Vel: 0.0 |
| | | | Alt: 660.0 ft |

RADAR PARAMETERS - for UWB

| | | |
|----------------------|---------|--------------------------------|
| RTP Channel: | 1 | Filter damping is Hi -> 10 sec |
| Resolution: | N/A | PRF Factor is FAST (262.5 kts) |
| Swath width: | Single | Ave Gndspd: Real -> 251.6 kts |
| RMS Time Constant: | 2^7 | Mocomp Off for Chnl 1, 2, 3, 4 |
| Position Reference: | ON | GPS Vel/Pos Reference |
| Atten. Tracking: | OFF | Adj Gnd Scene: 5000.0 ft |
| Range Gate Delta: | 0.0 ft | Range Tracking is OFF |
| Azimuth Presum Rate: | Presum6 | Clutterlock Reference: OFF |
| TX Chirp Filename: | CTL1U2B | RX Chirp Filename: CRL1N0A |

Ave Ref Vel -> 1.6 fps (s.d.= 5.8)
Ave Fil Vel -> 2.7 fps (s.d.= 5.4)

| NML XMIT PWR | ANT BIAS | Tape Footage | Drive no. |
|--------------|-----------------|-------------------|-----------|
| X: -70.0 | Elevation: 0.0° | Starting: 6562 ft | (1) |
| L: -70.0 | Azimuth: 0.0° | Ending: 7791 ft | (1) |
| C: -70.0 | Pitch: 0.0° | | |
| P: 46.9 | | | |

| | | |
|-----------|------------|---------------------|
| Vel Bias | CAL Atten | LINE Map Time (UCT) |
| X: 1035.0 | X: 63.8 dB | Start: 22:42:47 |
| Y: -433.0 | L: 63.8 dB | End: 22:45:22 |
| Z: 6697.0 | C: 63.8 dB | |

Mocomp Counters

| | |
|------------|------------|
| CPA (UCT): | 00:00:00 |
| Alt: | 0 ft (GPS) |
| Lat: N | 0:00: 0 |
| Lon: E | 0:00: 0 |

Start: 417376 00065E60h
End: 443377 0006C3F1h

26 Jun 1995
Tape: E1421

Post-line Data Sheet
Line 13
Mission: PORTAGE MAINE, DAY

Time: 177:22:51:36
Pass 7
Req.# 8

AIRCRAFT & CHANNEL DATA

| | | | | | | |
|-----------|---------------|------------------|-------|-------|-------|-------|
| Altitude | | | CH 1 | CH 2 | CH 3 | CH 4 |
| Desired: | 10000 ft | Wave/Pol.: | p-VV | p-VH | p-HV | p-HH |
| Baro: | 9956 ft s.d.= | 3 Swath Ctr Ang: | 30.0° | 30.0° | 30.0° | 30.0° |
| Slt. rng: | 18680 ft | Tgt Dep Ang: | 30.0° | 30.0° | 30.0° | 30.0° |
| Look: | Right | St rng (ft): | 17141 | 17141 | 17141 | 17141 |
| Depr Ang: | 25.0° | Near Rng Dep: | 35.5° | 35.5° | 35.5° | 35.5° |
| Des. trk: | 246.0° | Far Rng Dep: | 17.4° | 17.4° | 17.4° | 17.4° |
| Start Sq: | 90.0° | Atten (dB): | 52.0 | 54.0 | 53.0 | 59.0 |
| End Sq: | 90.0° | RMS Video (%FS) | 32.4 | 26.4 | 25.8 | 24.2 |

WAYPOINTS

| | Latitude | Longitude | |
|----------|------------|------------|---------------------------|
| Line_up: | N 46:49.16 | W 68:06.36 | Main Target: GP |
| Start: | N 46:44.31 | W 68:22.34 | Mocomp Point: |
| End: | N 46:40.25 | W 68:35.62 | Lat: N 46:44.73 |
| From: | N 51:01.11 | W 43:58.40 | Long: W 68:30.56 |
| To: | N 38:07.53 | W 87:53.28 | Tgt Trk: 0.0 Tgt Vel: 0.0 |
| | | | Alt: 660.0 ft |

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 251.3 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -6.3 fps (s.d.= 5.8)
Ave Fil Vel -> -7.1 fps (s.d.= 5.5)

| NML XMIT PWR | ANT BIAS | Tape Footage | Drive no. |
|--------------|-----------------|-------------------|-----------|
| X: -70.0 | Elevation: 0.0° | Starting: 7807 ft | (1) |
| L: -70.0 | Azimuth: 0.0° | Ending: 9038 ft | (1) |
| C: -70.0 | Pitch: 0.0° | | |
| P: 46.9 | | | |

| | | |
|-----------|------------|---------------------|
| Vel Bias | CAL Atten | LINE Map Time (UCT) |
| X: 1035.0 | X: 63.8 dB | Start: 22:51:36 |
| Y: -433.0 | L: 63.8 dB | End: 22:54:17 |
| Z: 6697.0 | C: 63.8 dB | |

| | |
|-------------------------|---------------------|
| Mocomp Counters | CPA (UCT): 00:00:00 |
| Start: 462892 0007102Ch | Alt: 0 ft (GPS) |
| End: 489894 000779A6h | Lat: N 0:00: 0 |
| | Lon: E 0:00: 0 |

26 Jun 1995
Tape: E1421

Post-line Data Sheet
Line 15
Mission: PORTAGE MAINE, DAY

Time: 177:23:02:58
Pass 8
Req.# 9

AIRCRAFT & CHANNEL DATA

| | | | | | | |
|-----------|---------------|------------------|-------|-------|-------|-------|
| Altitude | | | CH 1 | CH 2 | CH 3 | CH 4 |
| Desired: | 10000 ft | Wave/Pol.: | p-VV | p-VH | p-HV | p-HH |
| Baro: | 9984 ft s.d.= | 2 Swath Ctr Ang: | 30.0° | 30.0° | 30.0° | 30.0° |
| Slt. rng: | 18680 ft | Tgt Dep Ang: | 30.0° | 30.0° | 30.0° | 30.0° |
| Look: | Right | St rng (ft): | 17141 | 17141 | 17141 | 17141 |
| Depr Ang: | 25.0° | Near Rng Dep: | 35.6° | 35.6° | 35.6° | 35.6° |
| Des. trk: | 36.0° | Far Rng Dep: | 17.5° | 17.5° | 17.5° | 17.5° |
| Start Sq: | 90.0° | Atten (dB): | 52.0 | 54.0 | 53.0 | 59.0 |
| End Sq: | 90.0° | RMS Video (%FS) | 29.2 | 21.4 | 21.3 | 32.6 |

WAYPOINTS

| | Latitude | Longitude | |
|----------|------------|------------|---------------------------|
| Line_up: | N 46:32.53 | W 68:48.17 | Main Target: GP |
| Start: | N 46:42.25 | W 68:37.97 | Mocomp Point: |
| End: | N 46:50.34 | W 68:29.42 | Lat: N 46:44.73 |
| From: | N 32:36.42 | W 80:04.73 | Long: W 68:30.56 |
| To: | N 58:57.94 | W 49:34.83 | Tgt Trk: 0.0 Tgt Vel: 0.0 |
| | | | Alt: 660.0 ft |

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 255.1 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -.7 fps (s.d.= 1.1)
Ave Fil Vel -> -0.0 fps (s.d.= .8)

| NML XMIT PWR | ANT BIAS | Tape Footage | Drive no. |
|--------------|-----------------|-------------------|-----------|
| X: -70.0 | Elevation: 0.0° | Starting: 9054 ft | (1) |
| L: -70.0 | Azimuth: 0.0° | Ending: 10279 ft | (1) |
| C: -70.0 | Pitch: 0.0° | | |
| P: 46.8 | | | |

| | | |
|-----------|------------|---------------------|
| Vel Bias | CAL Atten | LINE Map Time (UCT) |
| X: 1035.0 | X: 63.8 dB | Start: 23:02:58 |
| Y: -433.0 | L: 63.8 dB | End: 23:05:38 |
| Z: 6697.0 | C: 63.8 dB | |

Mocomp Counters

Start: 516937 0007E349h
End: 543743 00084BFFh

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: E1422

Post-line Data Sheet
Line 17
Mission: PORTAGE MAINE, DAY

Time: 177:23:12:26
Pass 9
Req. # 10

AIRCRAFT & CHANNEL DATA

| | | | | | | |
|-----------|----------------|------------------|-------|-------|-------|-------|
| Altitude | | CH 1 | CH 2 | CH 3 | CH 4 | |
| Desired: | 10000 ft | Wave/Pol.: | p-VV | p-VH | p-HV | p-HH |
| Baro: | 9937 ft s.d. = | 4 Swath Ctr Ang: | 30.0° | 30.0° | 30.0° | 30.0° |
| Slt. rng: | 18680 ft | Tgt Dep Ang: | 30.0° | 30.0° | 30.0° | 30.0° |
| Look: | Right | St rng (ft): | 17141 | 17141 | 17141 | 17141 |
| Depr Ang: | 25.0° | Near Rng Dep: | 35.4° | 35.4° | 35.4° | 35.4° |
| Des. trk: | 216.0° | Far Rng Dep: | 17.4° | 17.4° | 17.4° | 17.4° |
| Start Sq: | 90.0° | Atten (dB): | 52.0 | 54.0 | 53.0 | 61.0 |
| End Sq: | 90.0° | RMS Video (%FS) | 23.1 | 13.2 | 15.2 | 14.9 |

WAYPOINTS

| | Latitude | Longitude |
|----------|------------|------------|
| Line_up: | N 46:56.89 | W 68:12.83 |
| Start: | N 46:47.20 | W 68:23.14 |
| End: | N 46:39.11 | W 68:31.69 |
| From: | N 58:54.63 | W 49:29.68 |
| To: | N 32:33.55 | W 79:58.52 |

Main Target: GP
Mocomp Point:
Lat: N 46:44.73
Long: W 68:30.56
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 660.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 251.7 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -1.7 fps (s.d.= 1.2)
Ave Fil Vel -> -1.9 fps (s.d.= .9)

| NML XMIT PWR | ANT BIAS | Tape Footage | Drive no. |
|--------------|-----------------|------------------|-----------|
| X: -70.0 | Elevation: 0.0° | Starting: 200 ft | (2) |
| L: -70.0 | Azimuth: 0.0° | Ending: 1469 ft | (2) |
| C: -70.0 | Pitch: 0.0° | | |
| P: 46.8 | | | |

| | | |
|-----------|------------|---------------------|
| Vel Bias | CAL Atten | LINE Map Time (UCT) |
| X: 1035.0 | X: 63.8 dB | Start: 23:12:26 |
| Y: -433.0 | L: 63.8 dB | End: 23:15:06 |
| Z: 6697.0 | C: 63.8 dB | |

Mocomp Counters

Start: 570090 0008B2EAh
End: 596959 00091BDFh

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

26 Jun 1995
Tape: E1422

Post-line Data Sheet
Line 19
Mission: PORTAGE MAINE, DAY

Time: 177:23:22:34
Pass 10
Req. # 11

AIRCRAFT & CHANNEL DATA

| | | | | | | |
|-----------|---------------|------------------|-------|-------|-------|-------|
| Altitude | | | CH 1 | CH 2 | CH 3 | CH 4 |
| Desired: | 10000 ft | Wave/Pol.: | p-VV | p-VH | p-HV | p-HH |
| Baro: | 9981 ft s.d.= | 3 Swath Ctr Ang: | 30.0° | 30.0° | 30.0° | 30.0° |
| Slt. rng: | 18680 ft | Tgt Dep Ang: | 30.0° | 30.0° | 30.0° | 30.0° |
| Look: | Right | St rng (ft): | 17141 | 17141 | 17141 | 17141 |
| Depr Ang: | 25.0° | Near Rng Dep: | 35.6° | 35.6° | 35.6° | 35.6° |
| Des. trk: | 6.0° | Far Rng Dep: | 17.5° | 17.5° | 17.5° | 17.5° |
| Start Sq: | 90.0° | Atten (dB): | 52.0 | 54.0 | 53.0 | 63.0 |
| End Sq: | 90.0° | RMS Video (%FS) | 23.4 | 14.4 | 16.0 | 15.1 |

WAYPOINTS

| | Latitude | Longitude | |
|----------|------------|------------|---------------------------|
| Line_up: | N 46:28.10 | W 68:36.99 | Main Target: GP |
| Start: | N 46:40.03 | W 68:35.18 | Mocomp Point: |
| End: | N 46:49.97 | W 68:33.66 | Lat: N 46:44.73 |
| From: | N 30:07.77 | W 70:33.39 | Long: W 68:30.56 |
| To: | N 63:14.52 | W 64:46.60 | Tgt Trk: 0.0 Tgt Vel: 0.0 |
| | | | Alt: 660.0 ft |

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 249.9 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> 2.2 fps (s.d.= 3.2)
Ave Fil Vel -> 2.1 fps (s.d.= 3.0)

| NML XMIT PWR | ANT BIAS | Tape Footage | Drive no. |
|--------------|-----------------|-------------------|-----------|
| X: -70.0 | Elevation: 0.0° | Starting: 1480 ft | (2) |
| L: -70.0 | Azimuth: 0.0° | Ending: 2740 ft | (2) |
| C: -70.0 | Pitch: 0.0° | | |
| P: 46.7 | | | |

| | | |
|-----------|------------|---------------------|
| Vel Bias | CAL Atten | LINE Map Time (UCT) |
| X: 1035.0 | X: 63.8 dB | Start: 23:22:34 |
| Y: -433.0 | L: 63.8 dB | End: 23:25:14 |
| Z: 6697.0 | C: 63.8 dB | |

Mocomp Counters

Start: 628672 000997C0h
End: 655473 000A0071h

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

26 Jun 1995
Tape: E1422

Post-line Data Sheet
Line 21
Mission: PORTAGE MAINE, DAY

Time: 177:23:32:38
Pass 11
Req.# 12

AIRCRAFT & CHANNEL DATA

| | | | | | | |
|-----------|---------------|------------------|-------|-------|-------|-------|
| Altitude | | | CH 1 | CH 2 | CH 3 | CH 4 |
| Desired: | 10000 ft | Wave/Pol.: | p-VV | p-VH | p-HV | p-HH |
| Baro: | 9948 ft s.d.= | 5 Swath Ctr Ang: | 30.0° | 30.0° | 30.0° | 30.0° |
| Slt. rng: | 18680 ft | Tgt Dep Ang: | 30.0° | 30.0° | 30.0° | 30.0° |
| Look: | Right | St rng (ft): | 17141 | 17141 | 17141 | 17141 |
| Depr Ang: | 25.0° | Near Rng Dep: | 35.5° | 35.5° | 35.5° | 35.5° |
| Des. trk: | 186.0° | Far Rng Dep: | 17.4° | 17.4° | 17.4° | 17.4° |
| Start Sq: | 90.0° | Atten (dB): | 52.0 | 54.0 | 53.0 | 63.0 |
| End Sq: | 90.0° | RMS Video (%FS) | 21.3 | 10.2 | 13.0 | 22.8 |

WAYPOINTS

| | Latitude | Longitude | |
|----------|------------|------------|---------------------------|
| Line_up: | N 47:01.35 | W 68:24.11 | Main Target: GP |
| Start: | N 46:49.42 | W 68:25.95 | Mocomp Point: |
| End: | N 46:39.48 | W 68:27.47 | Lat: N 46:44.73 |
| From: | N 63:13.96 | W 64:38.93 | Long: W 68:30.56 |
| To: | N 30:07.21 | W 70:25.69 | Tgt Trk: 0.0 Tgt Vel: 0.0 |
| | | | Alt: 660.0 ft |

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 257.2 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -1.5 fps (s.d.= 1.1)
Ave Fil Vel -> -.9 fps (s.d.= .8)

| NML XMIT PWR | ANT BIAS | Tape Footage | Drive no. |
|--------------|-----------------|-------------------|-----------|
| X: -70.0 | Elevation: 0.0° | Starting: 2753 ft | (2) |
| L: -70.0 | Azimuth: 0.0° | Ending: 3971 ft | (2) |
| C: -70.0 | Pitch: 0.0° | | |
| P: 46.7 | | | |

Vel Bias CAL Atten
X: 1035.0 X: 63.8 dB
Y: -433.0 L: 63.8 dB
Z: 6697.0 C: 63.8 dB

LINE Map Time (UCT)
Start: 23:32:38
End: 23:35:14

Mocomp Counters

Start: 680986 000A641Ah
End: 707159 000ACA57h

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

26 Jun 1995
Tape: E1422

Post-line Data Sheet
Line 23
Mission: PORTAGE MAINE, DAY

Time: 177:23:47:44
Pass 12
Req. # 13

AIRCRAFT & CHANNEL DATA

| | | | | | | |
|-----------|---------------|------------------|-------|-------|-------|-------|
| Altitude | | | CH 1 | CH 2 | CH 3 | CH 4 |
| Desired: | 10000 ft | Wave/Pol.: | p-VV | p-VH | p-HV | p-HH |
| Baro: | 9993 ft s.d.= | 2 Swath Ctr Ang: | 30.0° | 30.0° | 30.0° | 30.0° |
| Slt. rng: | 18680 ft | Tgt Dep Ang: | 30.0° | 30.0° | 30.0° | 30.0° |
| Look: | Right | St rng (ft): | 17141 | 17141 | 17141 | 17141 |
| Depr Ang: | 25.0° | Near Rng Dep: | 35.7° | 35.7° | 35.7° | 35.7° |
| Des. trk: | 306.0° | Far Rng Dep: | 17.5° | 17.5° | 17.5° | 17.5° |
| Start Sq: | 90.0° | Atten (dB): | 52.0 | 54.0 | 53.0 | 63.0 |
| End Sq: | 90.0° | RMS Video (%FS) | 31.9 | 13.0 | 24.9 | 31.0 |

WAYPOINTS

| | | |
|---------------------|------------|---------------------------|
| Latitude | Longitude | Main Target: GP |
| Line_up: N 46:32.56 | W 68:12.91 | Mocomp Point: |
| Start: N 46:39.64 | W 68:26.96 | Lat: N 46:44.73 |
| End: N 46:45.51 | W 68:38.72 | Long: W 68:30.56 |
| From: N 35:34.36 | W 52:00.47 | Tgt Trk: 0.0 Tgt Vel: 0.0 |
| To: N 54:22.90 | W 91:55.23 | Alt: 660.0 ft |

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 249.2 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -.9 fps (s.d.= 3.7)
Ave Fil Vel -> -1.8 fps (s.d.= 3.5)

| NML XMIT PWR | ANT BIAS | Tape Footage | Drive no. |
|--------------|-----------------|-------------------|-----------|
| X: -70.0 | Elevation: 0.0° | Starting: 3984 ft | (2) |
| L: -70.0 | Azimuth: 0.0° | Ending: 5237 ft | (2) |
| C: -70.0 | Pitch: 0.0° | | |
| P: 46.7 | | | |

| | | |
|-----------|------------|---------------------|
| Vel Bias | CAL Atten | LINE Map Time (UCT) |
| X: 1035.0 | X: 63.8 dB | Start: 23:47:44 |
| Y: -433.0 | L: 63.8 dB | End: 23:50:25 |
| Z: 6697.0 | C: 63.8 dB | |

Mocomp Counters

Start: 753170 000B7E12h
End: 780171 000BE78Bh

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

26 Jun 1995
Tape: E1422

Post-line Data Sheet
Line 25
Mission: PORTAGE MAINE, DAY

Time: 177:23:57:03
Pass 13
Req. # 14

AIRCRAFT & CHANNEL DATA

| | | | | | | |
|-----------|---------------|------------------|-------|-------|-------|-------|
| Altitude | | | CH 1 | CH 2 | CH 3 | CH 4 |
| Desired: | 10000 ft | Wave/Pol.: | p-VV | p-VH | p-HV | p-HH |
| Baro: | 9969 ft s.d.= | 2 Swath Ctr Ang: | 30.0° | 30.0° | 30.0° | 30.0° |
| Slt. rng: | 18680 ft | Tgt Dep Ang: | 30.0° | 30.0° | 30.0° | 30.0° |
| Look: | Right | St rng (ft): | 17141 | 17141 | 17141 | 17141 |
| Depr Ang: | 25.0° | Near Rng Dep: | 35.6° | 35.6° | 35.6° | 35.6° |
| Des. trk: | 126.0° | Far Rng Dep: | 17.4° | 17.4° | 17.4° | 17.4° |
| Start Sq: | 90.0° | Atten (dB): | 52.0 | 54.0 | 53.0 | 63.0 |
| End Sq: | 90.0° | RMS Video (%FS) | 28.2 | 15.9 | 17.6 | 35.5 |

WAYPOINTS

| | |
|---------------------|------------|
| Latitude | Longitude |
| Line_up: N 46:56.83 | W 68:48.36 |
| Start: N 46:49.80 | W 68:34.19 |
| End: N 46:43.93 | W 68:22.42 |
| From: N 54:27.42 | W 91:52.73 |
| To: N 35:38.07 | W 51:55.62 |

Main Target: GP
Mocomp Point:
Lat: N 46:44.73
Long: W 68:30.56
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 660.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 248.6 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1NOA

Ave Ref Vel ->-11.6 fps (s.d.= 3.5)
Ave Fil Vel -> -9.8 fps (s.d.= 3.0)

| NML XMIT PWR | ANT BIAS | Tape Footage | Drive no. |
|--------------|-----------------|-------------------|-----------|
| X: -70.0 | Elevation: 0.0° | Starting: 5250 ft | (2) |
| L: -70.0 | Azimuth: 0.0° | Ending: 5524 ft | (2) |
| C: -70.0 | Pitch: 0.0° | | |
| P: 46.8 | | | |

| | |
|-----------|------------|
| Vel Bias | CAL Atten |
| X: 1035.0 | X: 63.8 dB |
| Y: -433.0 | L: 63.8 dB |
| Z: 6697.0 | C: 63.8 dB |

LINE Map Time (UCT)
Start: 23:57:03
End: 23:57:28

Mocomp Counters

Start: 802016 000C3CE0h
End: 806350 000C4DCEh

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

27 Jun 1995
Tape: E1422

Post-line Data Sheet
Line 25
Mission: PORTAGE MAINE, DAY

Time: 178:00:09:47
Pass 14
Req.# 14

AIRCRAFT & CHANNEL DATA

| | | | | | | |
|-----------|---------------|------------------|-------|-------|-------|-------|
| Altitude | | CH 1 | CH 2 | CH 3 | CH 4 | |
| Desired: | 10000 ft | Wave/Pol.: | p-VV | p-VH | p-HV | p-HH |
| Baro: | 9979 ft s.d.= | 2 Swath Ctr Ang: | 30.0° | 30.0° | 30.0° | 30.0° |
| Slt. rng: | 18680 ft | Tgt Dep Ang: | 30.0° | 30.0° | 30.0° | 30.0° |
| Look: | Right | St rng (ft): | 17141 | 17141 | 17141 | 17141 |
| Depr Ang: | 25.0° | Near Rng Dep: | 35.6° | 35.6° | 35.6° | 35.6° |
| Des. trk: | 126.0° | Far Rng Dep: | 17.5° | 17.5° | 17.5° | 17.5° |
| Start Sq: | 90.0° | Atten (dB): | 52.0 | 54.0 | 53.0 | 63.0 |
| End Sq: | 90.0° | RMS Video (%FS) | 26.2 | 15.5 | 16.9 | 34.2 |

WAYPOINTS

| | Latitude | Longitude | |
|----------|------------|------------|---------------------------|
| Line_up: | N 46:56.83 | W 68:48.36 | Main Target: GP |
| Start: | N 46:49.80 | W 68:34.19 | Mocomp Point: |
| End: | N 46:43.93 | W 68:22.42 | Lat: N 46:44.73 |
| From: | N 54:27.42 | W 91:52.73 | Long: W 68:30.56 |
| To: | N 35:38.07 | W 51:55.62 | Tgt Trk: 0.0 Tgt Vel: 0.0 |
| | | | Alt: 660.0 ft |

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 253.8 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -.6 fps (s.d.= 1.5)
Ave Fil Vel -> .8 fps (s.d.= 1.5)

| NML XMIT PWR | ANT BIAS | Tape Footage | Drive no. |
|--------------|-----------------|-------------------|-----------|
| X: -70.0 | Elevation: 0.0° | Starting: 5537 ft | (2) |
| L: -70.0 | Azimuth: 0.0° | Ending: 6766 ft | (2) |
| C: -70.0 | Pitch: 0.0° | | |
| P: 46.8 | | | |

| Vel Bias | CAL Atten | LINE Map Time (UCT) |
|-----------|------------|---------------------|
| X: 1035.0 | X: 63.8 dB | Start: 00:09:47 |
| Y: -433.0 | L: 63.8 dB | End: 00:12:26 |
| Z: 6697.0 | C: 63.8 dB | |

| Mocomp Counters | CPA (UCT): 00:00:00 |
|-------------------------|---------------------|
| Start: 844534 000CE2F6h | Alt: 0 ft (GPS) |
| End: 871201 000D4B21h | Lat: N 0:00: 0 |
| | Lon: E 0:00: 0 |

27 Jun 1995
Tape: E1422

Post-line Data Sheet
Line 27
Mission: PORTAGE MAINE, DAY

Time: 178:00:22:27
Pass 15
Req.# 15

AIRCRAFT & CHANNEL DATA

| | | | | | | | |
|-----------|---------------|-----------------|----------------|-------|-------|-------|-------|
| Altitude | | CH 1 | CH 2 | CH 3 | CH 4 | | |
| Desired: | 10000 ft | p-VV | p-VH | p-HV | p-HH | | |
| Baro: | 9989 ft s.d.= | 3 | Swath Ctr Ang: | 30.0° | 30.0° | 30.0° | 30.0° |
| Slt. rng: | 18680 ft | Tgt Dep Ang: | 30.0° | 30.0° | 30.0° | 30.0° | |
| Look: | Right | St rng (ft): | 17141 | 17141 | 17141 | 17141 | |
| Depr Ang: | 25.0° | Near Rng Dep: | 35.6° | 35.6° | 35.6° | 35.6° | |
| Des. trk: | 336.0° | Far Rng Dep: | 17.5° | 17.5° | 17.5° | 17.5° | |
| Start Sq: | 90.0° | Atten (dB): | 52.0 | 54.0 | 53.0 | 63.0 | |
| End Sq: | 90.0° | RMS Video (%FS) | 27.1 | 9.9 | 19.0 | 23.2 | |

WAYPOINTS

| | | |
|---------------------|------------|---------------------------|
| Latitude | Longitude | Main Target: GP |
| Line_up: N 46:28.11 | W 68:24.09 | Mocomp Point: |
| Start: N 46:39.08 | W 68:31.14 | Lat: N 46:44.73 |
| End: N 46:48.21 | W 68:37.06 | Long: W 68:30.56 |
| From: N 31:10.38 | W 60:44.66 | Tgt Trk: 0.0 Tgt Vel: 0.0 |
| To: N 61:16.22 | W 82:32.56 | Alt: 660.0 ft |

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 249.7 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> .3 fps (s.d.= .9)
Ave Fil Vel -> -.5 fps (s.d.= .7)

| NML XMIT PWR | ANT BIAS | Tape Footage | Drive no. |
|--------------|-----------------|-------------------|-----------|
| X: -70.0 | Elevation: 0.0° | Starting: 6780 ft | (2) |
| L: -70.0 | Azimuth: 0.0° | Ending: 8025 ft | (2) |
| C: -70.0 | Pitch: 0.0° | | |
| P: 47.0 | | | |

| | | |
|-----------|------------|---------------------|
| Vel Bias | CAL Atten | LINE Map Time (UCT) |
| X: 1035.0 | X: 63.8 dB | Start: 00:22:27 |
| Y: -433.0 | L: 63.8 dB | End: 00:25:11 |
| Z: 6697.0 | C: 63.8 dB | |

Mocomp Counters

Start: 908049 000DDB11h
End: 935547 000E467Bh

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

27 Jun 1995
Tape: E1422

Post-line Data Sheet
Line 29
Mission: PORTAGE MAINE, DAY

Time: 178:00:31:42
Pass 16
Req.# 16

AIRCRAFT & CHANNEL DATA

| | | | | | |
|-----------|---------------|------------------|-------|-------|-------|
| Altitude | | CH 1 | CH 2 | CH 3 | CH 4 |
| Desired: | 10000 ft | Wave/Pol.: | p-VV | p-VH | p-HV |
| Baro: | 9959 ft s.d.= | 4 Swath Ctr Ang: | 30.0° | 30.0° | 30.0° |
| Slt. rng: | 18680 ft | Tgt Dep Ang: | 30.0° | 30.0° | 30.0° |
| Look: | Right | St rng (ft): | 17141 | 17141 | 17141 |
| Depr Ang: | 25.0° | Near Rng Dep: | 35.5° | 35.5° | 35.5° |
| Des. trk: | 156.0° | Far Rng Dep: | 17.4° | 17.4° | 17.4° |
| Start Sq: | 90.0° | Atten (dB): | 53.0 | 54.0 | 53.0 |
| End Sq: | 90.0° | RMS Video (%FS) | 27.7 | 10.2 | 22.2 |
| | | | | | 63.0 |
| | | | | | 12.8 |

WAYPOINTS

| | Latitude | Longitude |
|----------|------------|------------|
| Line_up: | N 47:01.32 | W 68:37.14 |
| Start: | N 46:50.37 | W 68:30.00 |
| End: | N 46:41.24 | W 68:24.09 |
| From: | N 61:18.45 | W 82:26.03 |
| To: | N 31:12.45 | W 60:37.70 |

Main Target: GP
Mocomp Point:
Lat: N 46:44.73
Long: W 68:30.56
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 660.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 250.1 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -0.0 fps (s.d.= 1.4)
Ave Fil Vel -> 1.0 fps (s.d.= 1.3)

| NML XMIT PWR | ANT BIAS | Tape Footage | Drive no. |
|--------------|-----------------|-------------------|-----------|
| X: -70.0 | Elevation: 0.0° | | |
| L: -70.0 | Azimuth: 0.0° | Starting: 8038 ft | (2) |
| C: -70.0 | Pitch: 0.0° | Ending: 9267 ft | (2) |
| P: 47.1 | | | |

| | | |
|-----------|------------|---------------------|
| Vel Bias | CAL Atten | LINE Map Time (UCT) |
| X: 1035.0 | X: 63.8 dB | Start: 00:31:42 |
| Y: -433.0 | L: 63.8 dB | End: 00:34:24 |
| Z: 6697.0 | C: 63.8 dB | |

Mocomp Counters

Start: 959726 000EA4EEh
End: 986894 000F0F0Eh

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

27 Jun 1995
Tape: E1423

Post-line Data Sheet
Line 31
Mission: PORTAGE MAINE, DAY

Time: 178:00:44:17
Pass 17
Req.# 17

AIRCRAFT & CHANNEL DATA

| | | | | | | |
|-----------|---------------|------------------|-------|-------|-------|-------|
| Altitude | | | CH 1 | CH 2 | CH 3 | CH 4 |
| Desired: | 10000 ft | Wave/Pol.: | p-VV | p-VH | p-HV | p-HH |
| Baro: | 9972 ft s.d.= | 3 Swath Ctr Ang: | 28.0° | 28.0° | 28.0° | 28.0° |
| Slt. rng: | 19592 ft | Tgt Dep Ang: | 28.0° | 28.0° | 28.0° | 28.0° |
| Look: | Right | St rng (ft): | 16339 | 16339 | 16339 | 16339 |
| Depr Ang: | 25.0° | Near Rng Dep: | 37.6° | 37.6° | 37.6° | 37.6° |
| Des. trk: | 276.0° | Far Rng Dep: | 17.9° | 17.9° | 17.9° | 17.9° |
| Start Sq: | 90.0° | Atten (dB): | 54.0 | 54.0 | 54.0 | 63.0 |
| End Sq: | 90.0° | RMS Video (%FS) | 32.2 | 14.4 | 22.3 | 19.5 |

WAYPOINTS

| | | |
|---------------------|------------|---------------------------|
| Latitude | Longitude | Main Target: CALCS |
| Line_up: N 46:39.64 | W 68:04.86 | Mocomp Point: |
| Start: N 46:40.93 | W 68:22.18 | Lat: N 46:44.29 |
| End: N 46:41.98 | W 68:36.64 | Long: W 68:28.98 |
| From: N 42:35.36 | W 45:46.22 | Tgt Trk: 0.0 Tgt Vel: 1.0 |
| To: N 45:52.64 | W 92:35.19 | Alt: 802.0 ft |

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL2U1A

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 250.5 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL2N0A

Ave Ref Vel -> -.9 fps (s.d.= 1.3)
Ave Fil Vel -> -2.2 fps (s.d.= 1.0)

| NML XMIT PWR | ANT BIAS | Tape Footage | Drive no. |
|--------------|-----------------|------------------|-----------|
| X: -70.0 | Elevation: 0.0° | Starting: 200 ft | (1) |
| L: -70.0 | Azimuth: 0.0° | Ending: 1439 ft | (1) |
| C: -70.0 | Pitch: 0.0° | | |
| P: 44.7 | | | |

| | | |
|-----------|------------|---------------------|
| Vel Bias | CAL Atten | LINE Map Time (UCT) |
| X: 1035.0 | X: 63.8 dB | Start: 00:44:17 |
| Y: -433.0 | L: 63.8 dB | End: 00:46:58 |
| Z: 6697.0 | C: 63.8 dB | |

Mocomp Counters

| | |
|--------------------------|---------------------|
| Start: 1020406 000F91F6h | CPA (UCT): 00:00:00 |
| End: 1047407 000FFB6Fh | Alt: 0 ft (GPS) |
| | Lat: N 0:00: 0 |
| | Lon: E 0:00: 0 |

27 Jun 1995
Tape: E1423

Post-line Data Sheet
Line 33
Mission: PORTAGE MAINE, DAY

Time: 178:01:01:46
Pass 18
Req.# 18

AIRCRAFT & CHANNEL DATA

| | | | | | | |
|-----------|---------------|------------------|-------|-------|-------|-------|
| Altitude | | CH 1 | CH 2 | CH 3 | CH 4 | |
| Desired: | 7000 ft | Wave/Pol.: | p-VV | p-VH | p-HV | p-HH |
| Baro: | 6834 ft s.d.= | 8 Swath Ctr Ang: | 20.0° | 20.0° | 20.0° | 20.0° |
| Slt. rng: | 18537 ft | Tgt Dep Ang: | 20.0° | 20.0° | 20.0° | 20.0° |
| Look: | Right | St rng (ft): | 17001 | 17001 | 17001 | 17001 |
| Depr Ang: | 25.0° | Near Rng Dep: | 23.7° | 23.7° | 23.7° | 23.7° |
| Des. trk: | 276.0° | Far Rng Dep: | 11.9° | 11.9° | 11.9° | 11.9° |
| Start Sq: | 90.0° | Atten (dB): | 54.0 | 52.0 | 54.0 | 63.0 |
| End Sq: | 90.0° | RMS Video (%FS) | 18.2 | 26.4 | 13.8 | 27.8 |

WAYPOINTS

| | Latitude | Longitude |
|----------|------------|------------|
| Line_up: | N 46:40.30 | W 68:06.18 |
| Start: | N 46:41.59 | W 68:23.50 |
| End: | N 46:42.64 | W 68:37.97 |
| From: | N 42:35.97 | W 45:47.31 |
| To: | N 45:53.24 | W 92:36.79 |

Main Target: SIG
Mocomp Point:
Lat: N 46:44.97
Long: W 68:30.30
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 660.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 254.1 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1NOA

Ave Ref Vel -> -5.8 fps (s.d.= 12.8)
Ave Fil Vel -> -7.2 fps (s.d.= 12.4)

| NML XMIT PWR | ANT BIAS | Tape Footage | Drive no. |
|--------------|-----------------|-------------------|-----------|
| X: -70.0 | Elevation: 0.0° | Starting: 1454 ft | (1) |
| L: -70.0 | Azimuth: 0.0° | Ending: 2679 ft | (1) |
| C: -70.0 | Pitch: 0.0° | | |
| P: 47.1 | | | |

| Vel Bias | CAL Atten |
|-----------|------------|
| X: 1035.0 | X: 63.8 dB |
| Y: -433.0 | L: 63.8 dB |
| Z: 6697.0 | C: 63.8 dB |

LINE Map Time (UCT)
Start: 01:01:46
End: 01:04:24

Mocomp Counters

Start: 1087785 00109929h
End: 1114252 0011008Ch

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

27 Jun 1995
Tape: E1423

Post-line Data Sheet
Line 35
Mission: PORTAGE MAINE, DAY

Time: 178:01:13:38
Pass 19
Req.# 19

AIRCRAFT & CHANNEL DATA

| | | | | | | |
|-----------|---------------|------------------|-------|-------|-------|-------|
| Altitude | | CH 1 | CH 2 | CH 3 | CH 4 | |
| Desired: | 6000 ft | p-VV | p-VH | p-HV | p-HH | |
| Baro: | 5845 ft s.d.= | 2 Swath Ctr Ang: | 15.0° | 15.0° | 15.0° | 15.0° |
| Slt. rng: | 20632 ft | Tgt Dep Ang: | 15.0° | 15.0° | 15.0° | 15.0° |
| Look: | Right | St rng (ft): | 19097 | 19097 | 19097 | 19097 |
| Depr Ang: | 25.0° | Near Rng Dep: | 17.8° | 17.8° | 17.8° | 17.8° |
| Des. trk: | 6.0° | Far Rng Dep: | 9.6° | 9.6° | 9.6° | 9.6° |
| Start Sq: | 90.0° | Atten (dB): | 54.0 | 48.0 | 50.0 | 63.0 |
| End Sq: | 90.0° | RMS Video (%FS) | 13.1 | 15.0 | 13.3 | 16.5 |

WAYPOINTS

| | |
|---------------------|------------|
| Latitude | Longitude |
| Line_up: N 46:28.17 | W 68:37.88 |
| Start: N 46:40.10 | W 68:36.07 |
| End: N 46:50.04 | W 68:34.55 |
| From: N 30:07.84 | W 70:34.28 |
| To: N 63:14.58 | W 64:47.49 |

Main Target: GP
Mocomp Point:
Lat: N 46:44.73
Long: W 68:30.56
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 660.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 250.6 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -.1 fps (s.d.= .8)
Ave Fil Vel -> -.6 fps (s.d.= .7)

| NML XMIT PWR | ANT BIAS | Tape Footage | Drive no. |
|--------------|-----------------|-------------------|-----------|
| X: -70.0 | Elevation: 0.0° | Starting: 2694 ft | (1) |
| L: -70.0 | Azimuth: 0.0° | Ending: 3948 ft | (1) |
| C: -70.0 | Pitch: 0.0° | | |
| P: 46.2 | | | |

| | |
|-----------|------------|
| Vel Bias | CAL Atten |
| X: 1035.0 | X: 63.8 dB |
| Y: -433.0 | L: 63.8 dB |
| Z: 6697.0 | C: 63.8 dB |

LINE Map Time (UCT)
Start: 01:13:38
End: 01:16:17

Mocomp Counters

Start: 1141976 00116CD8h
End: 1168601 0011D4D9h

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

27 Jun 1995
Tape: E1423

Post-line Data Sheet
Line 37
Mission: PORTAGE MAINE, DAY

Time: 178:01:24:19
Pass 20
Req.# 20

AIRCRAFT & CHANNEL DATA

| | | | | | | | |
|-----------|---------------|-----------------|----------------|-------|-------|-------|-------|
| Altitude | | CH 1 | CH 2 | CH 3 | CH 4 | | |
| Desired: | 6000 ft | p-VV | p-VH | p-HV | p-HH | | |
| Baro: | 5833 ft s.d.= | 1 | Swath Ctr Ang: | 15.0° | 15.0° | 15.0° | 15.0° |
| Slt. rng: | 20632 ft | Tgt Dep Ang: | 15.0° | 15.0° | 15.0° | 15.0° | |
| Look: | Right | St rng (ft): | 19097 | 19097 | 19097 | 19097 | |
| Depr Ang: | 25.0° | Near Rng Dep: | 17.8° | 17.8° | 17.8° | 17.8° | |
| Des. trk: | 186.0° | Far Rng Dep: | 9.5° | 9.5° | 9.5° | 9.5° | |
| Start Sq: | 90.0° | Atten (dB): | 51.0 | 48.0 | 50.0 | 63.0 | |
| End Sq: | 90.0° | RMS Video (%FS) | 18.7 | 24.1 | 15.4 | 9.5 | |

WAYPOINTS

| | | |
|---------------------|------------|---------------------------|
| Latitude | Longitude | Main Target: GP |
| Line_up: N 47:01.28 | W 68:23.22 | Mocomp Point: |
| Start: N 46:49.35 | W 68:25.06 | Lat: N 46:44.73 |
| End: N 46:39.41 | W 68:26.58 | Long: W 68:30.56 |
| From: N 63:13.90 | W 64:38.04 | Tgt Trk: 0.0 Tgt Vel: 0.0 |
| To: N 30:07.15 | W 70:24.80 | Alt: 660.0 ft |

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 247.0 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1NOA

Ave Ref Vel -> -1.3 fps (s.d.= .4)
Ave Fil Vel -> -.8 fps (s.d.= .2)

| | | | |
|--------------|-----------------|-------------------|-----------|
| NML XMIT PWR | ANT BIAS | Tape Footage | Drive no. |
| X: -70.0 | Elevation: 0.0° | Starting: 3962 ft | (1) |
| L: -70.0 | Azimuth: 0.0° | Ending: 5206 ft | (1) |
| C: -70.0 | Pitch: 0.0° | | |
| P: 46.9 | | | |

| | | |
|-----------|------------|---------------------|
| Vel Bias | CAL Atten | LINE Map Time (UCT) |
| X: 1035.0 | X: 63.8 dB | Start: 01:24:19 |
| Y: -433.0 | L: 63.8 dB | End: 01:27:01 |
| Z: 6697.0 | C: 63.8 dB | |

Mocomp Counters

| | |
|--------------------------|---------------------|
| Start: 1198955 00124B6Bh | CPA (UCT): 00:00:00 |
| End: 1200623 001251EFh | Alt: 0 ft (GPS) |
| | Lat: N 0:00: 0 |
| | Lon: E 0:00: 0 |

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Tape: E1423

Post-line Data Sheet
Line 37
Mission: PORTAGE MAINE, DAY

Time: 178:01:24:28
Pass 21
Req.# 20

AIRCRAFT & CHANNEL DATA

| | | | | | | |
|-----------|---------------|------------------|-------|-------|-------|-------|
| Altitude | | | CH 1 | CH 2 | CH 3 | CH 4 |
| Desired: | 6000 ft | Wave/Pol.: | p-VV | p-VH | p-HV | p-HH |
| Baro: | 5828 ft s.d.= | 4 Swath Ctr Ang: | 15.0° | 15.0° | 15.0° | 15.0° |
| Slt. rng: | 20632 ft | Tgt Dep Ang: | 15.0° | 15.0° | 15.0° | 15.0° |
| Look: | Right | St rng (ft): | 19097 | 19097 | 19097 | 19097 |
| Depr Ang: | 25.0° | Near Rng Dep: | 17.8° | 17.8° | 17.8° | 17.8° |
| Des. trk: | 186.0° | Far Rng Dep: | 9.5° | 9.5° | 9.5° | 9.5° |
| Start Sq: | 90.0° | Atten (dB): | 51.0 | 48.0 | 50.0 | 61.0 |
| End Sq: | 90.0° | RMS Video (%FS) | 18.4 | 22.1 | 15.7 | 9.3 |

WAYPOINTS

| | | |
|---------------------|------------|---------------------------|
| Latitude | Longitude | Main Target: GP |
| Line_up: N 47:01.28 | W 68:23.22 | Mocomp Point: |
| Start: N 46:49.35 | W 68:25.06 | Lat: N 46:44.73 |
| End: N 46:39.41 | W 68:26.58 | Long: W 68:30.56 |
| From: N 63:13.90 | W 64:38.04 | Tgt Trk: 0.0 Tgt Vel: 0.0 |
| To: N 30:07.15 | W 70:24.80 | Alt: 660.0 ft |

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 243.7 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -1.8 fps (s.d.= .7)
Ave Fil Vel -> -1.4 fps (s.d.= .5)

| NML XMIT PWR | ANT BIAS | Tape Footage | Drive no. |
|--------------|-----------------|-------------------|-----------|
| X: -70.0 | Elevation: 0.0° | Starting: 3962 ft | (1) |
| L: -70.0 | Azimuth: 0.0° | Ending: 5206 ft | (1) |
| C: -70.0 | Pitch: 0.0° | | |
| P: 46.8 | | | |

| | |
|-----------|------------|
| Vel Bias | CAL Atten |
| X: 1035.0 | X: 63.8 dB |
| Y: -433.0 | L: 63.8 dB |
| Z: 6697.0 | C: 63.8 dB |

LINE Map Time (UCT)
Start: 01:24:28
End: 01:27:01

Mocomp Counters

Start: 1200623 001251EFh
End: 1226131 0012B593h

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

27 Jun 1995
Tape: E1423

Post-line Data Sheet
Line 39
Mission: PORTAGE MAINE, DAY

Time: 178:01:35:52
Pass 22
Req.# 21

AIRCRAFT & CHANNEL DATA

| | | | | | | |
|-----------|---------------|------------------|-------|-------|-------|-------|
| Altitude | | | CH 1 | CH 2 | CH 3 | CH 4 |
| Desired: | 6000 ft | Wave/Pol.: | p-VV | p-VH | p-HV | p-HH |
| Baro: | 5846 ft s.d.= | 3 Swath Ctr Ang: | 15.0° | 15.0° | 15.0° | 15.0° |
| Slt. rng: | 20632 ft | Tgt Dep Ang: | 15.0° | 15.0° | 15.0° | 15.0° |
| Look: | Right | St rng (ft): | 19097 | 19097 | 19097 | 19097 |
| Depr Ang: | 25.0° | Near Rng Dep: | 17.8° | 17.8° | 17.8° | 17.8° |
| Des. trk: | 336.0° | Far Rng Dep: | 9.6° | 9.6° | 9.6° | 9.6° |
| Start Sq: | 90.0° | Atten (dB): | 47.0 | 44.0 | 37.0 | 61.0 |
| End Sq: | 90.0° | RMS Video (%FS) | 26.3 | 18.2 | 34.2 | 22.6 |

WAYPOINTS

| | Latitude | Longitude | |
|----------|------------|------------|---------------------------|
| Line_up: | N 46:27.86 | W 68:24.91 | Main Target: GP |
| Start: | N 46:38.83 | W 68:31.96 | Mocomp Point: |
| End: | N 46:47.96 | W 68:37.88 | Lat: N 46:44.73 |
| From: | N 31:10.14 | W 60:45.47 | Long: W 68:30.56 |
| To: | N 61:15.96 | W 82:33.31 | Tgt Trk: 0.0 Tgt Vel: 0.0 |
| | | | Alt: 660.0 ft |

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 249.8 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -.8 fps (s.d.= .9)
Ave Fil Vel -> -2.0 fps (s.d.= .8)

| NML XMIT PWR | ANT BIAS | Tape Footage | Drive no. |
|--------------|-----------------|-------------------|-----------|
| X: -70.0 | Elevation: 0.0° | Starting: 5221 ft | (1) |
| L: -70.0 | Azimuth: 0.0° | Ending: 6487 ft | (1) |
| C: -70.0 | Pitch: 0.0° | | |
| P: 46.5 | | | |

| | | |
|-----------|------------|---------------------|
| Vel Bias | CAL Atten | LINE Map Time (UCT) |
| X: 1035.0 | X: 63.8 dB | Start: 01:35:52 |
| Y: -433.0 | L: 63.8 dB | End: 01:38:37 |
| Z: 6697.0 | C: 63.8 dB | |

Mocomp Counters

Start: 1255642 001328DAh
End: 1283311 001394EFh

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: E1423

Post-line Data Sheet
Line 41
Mission: PORTAGE MAINE, DAY

Time: 178:01:46:53
Pass 23
Req.# 22

AIRCRAFT & CHANNEL DATA

| | | | | | | |
|-----------|---------------|------------------|-------|-------|-------|-------|
| Altitude | | | CH 1 | CH 2 | CH 3 | CH 4 |
| Desired: | 6000 ft | Wave/Pol.: | p-VV | p-VH | p-HV | p-HH |
| Baro: | 5845 ft s.d.= | 3 Swath Ctr Ang: | 15.0° | 15.0° | 15.0° | 15.0° |
| Slt. rng: | 20632 ft | Tgt Dep Ang: | 15.0° | 15.0° | 15.0° | 15.0° |
| Look: | Right | St rng (ft): | 19097 | 19097 | 19097 | 19097 |
| Depr Ang: | 25.0° | Near Rng Dep: | 17.8° | 17.8° | 17.8° | 17.8° |
| Des. trk: | 156.0° | Far Rng Dep: | 9.6° | 9.6° | 9.6° | 9.6° |
| Start Sq: | 90.0° | Atten (dB): | 47.0 | 47.0 | 46.0 | 61.0 |
| End Sq: | 90.0° | RMS Video (%FS) | 25.6 | 23.4 | 18.9 | 28.9 |

WAYPOINTS

| | | |
|---------------------|------------|---------------------------|
| Latitude | Longitude | Main Target: GP |
| Line_up: N 47:01.57 | W 68:36.32 | Mocomp Point: |
| Start: N 46:50.62 | W 68:29.18 | Lat: N 46:44.73 |
| End: N 46:41.49 | W 68:23.26 | Long: W 68:30.56 |
| From: N 61:18.71 | W 82:25.28 | Tgt Trk: 0.0 Tgt Vel: 0.0 |
| To: N 31:12.69 | W 60:36.89 | Alt: 660.0 ft |

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 252.8 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1NOA

Ave Ref Vel -> .4 fps (s.d.= 1.0)
Ave Fil Vel -> 1.2 fps (s.d.= .8)

| NML XMIT PWR | ANT BIAS | Tape Footage | Drive no. |
|-----------------|-----------------|---------------------|-----------|
| X: -70.0 | Elevation: 0.0° | Starting: 6499 ft | (1) |
| L: -70.0 | Azimuth: 0.0° | Ending: 7709 ft | (1) |
| C: -70.0 | Pitch: 0.0° | | |
| P: 46.3 | | | |
| Vel Bias | CAL Atten | LINE Map Time (UCT) | |
| X: 1035.0 | X: 63.8 dB | Start: 01:46:53 | |
| Y: -433.0 | L: 63.8 dB | End: 01:49:31 | |
| Z: 6697.0 | C: 63.8 dB | | |
| Mocomp Counters | | CPA (UCT): 00:00:00 | |
| Start: 1316823 | 001417D7h | Alt: 0 ft (GPS) | |
| End: 1343323 | 00147F5Bh | Lat: N 0:00: 0 | |
| | | Lon: E 0:00: 0 | |

27 Jun 1995
Tape: E1423

Post-line Data Sheet
Line 43
Mission: PORTAGE MAINE, DAY

Time: 178:01:58:31
Pass 24
Req.# 23

AIRCRAFT & CHANNEL DATA

| | | | | | | |
|-----------|---------------|------------------|-------|-------|-------|-------|
| Altitude | | | CH 1 | CH 2 | CH 3 | CH 4 |
| Desired: | 6000 ft | Wave/Pol.: | p-VV | p-VH | p-HV | p-HH |
| Baro: | 5840 ft s.d.= | 4 Swath Ctr Ang: | 15.0° | 15.0° | 15.0° | 15.0° |
| Slt. rng: | 20632 ft | Tgt Dep Ang: | 15.0° | 15.0° | 15.0° | 15.0° |
| Look: | Right | St rng (ft): | 19097 | 19097 | 19097 | 19097 |
| Depr Ang: | 25.0° | Near Rng Dep: | 17.8° | 17.8° | 17.8° | 17.8° |
| Des. trk: | 306.0° | Far Rng Dep: | 9.5° | 9.5° | 9.5° | 9.5° |
| Start Sq: | 90.0° | Atten (dB): | 47.0 | 44.0 | 42.0 | 61.0 |
| End Sq: | 90.0° | RMS Video (%FS) | 26.0 | 24.3 | 28.1 | 25.0 |

WAYPOINTS

| | Latitude | Longitude |
|----------|------------|------------|
| Line_up: | N 46:32.06 | W 68:13.43 |
| Start: | N 46:39.14 | W 68:27.49 |
| End: | N 46:45.01 | W 68:39.25 |
| From: | N 35:33.93 | W 52:01.04 |
| To: | N 54:22.37 | W 91:55.52 |

| | |
|---------------|------------|
| Main Target: | GP |
| Mocomp Point: | |
| Lat: | N 46:44.73 |
| Long: | W 68:30.56 |
| Tgt Trk: | 0.0 |
| Tgt Vel: | 0.0 |
| Alt: | 660.0 ft |

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 244.8 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1NOA

Ave Ref Vel -> -1.2 fps (s.d.= 1.4)
Ave Fil Vel -> -2.7 fps (s.d.= 1.3)

| NML XMIT PWR | ANT BIAS | Tape Footage | Drive no. |
|--------------|-----------------|-------------------|-----------|
| X: -70.0 | Elevation: 0.0° | Starting: 7725 ft | (1) |
| L: -70.0 | Azimuth: 0.0° | Ending: 8993 ft | (1) |
| C: -70.0 | Pitch: 0.0° | | |
| P: 46.1 | | | |

| | |
|-----------|------------|
| Vel Bias | CAL Atten |
| X: 1035.0 | X: 63.8 dB |
| Y: -433.0 | L: 63.8 dB |
| Z: 6697.0 | C: 63.8 dB |

LINE Map Time (UCT)
Start: 01:58:31
End: 02:01:16

Mocomp Counters

Start: 1376501 001500F5h
End: 1404168 00156D08h

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

27 Jun 1995
Tape: E1423

Post-line Data Sheet
Line 45
Mission: PORTAGE MAINE, DAY

Time: 178:02:11:05
Pass 25
Req.# 24

AIRCRAFT & CHANNEL DATA

| | | | | | | |
|-----------|---------------|------------------|-------|-------|-------|-------|
| Altitude | | | CH 1 | CH 2 | CH 3 | CH 4 |
| Desired: | 6000 ft | Wave/Pol.: | p-VV | p-VH | p-HV | p-HH |
| Baro: | 5854 ft s.d.= | 4 Swath Ctr Ang: | 15.0° | 15.0° | 15.0° | 15.0° |
| Slt. rng: | 20632 ft | Tgt Dep Ang: | 15.0° | 15.0° | 15.0° | 15.0° |
| Look: | Right | St rng (ft): | 19097 | 19097 | 19097 | 19097 |
| Depr Ang: | 25.0° | Near Rng Dep: | 17.8° | 17.8° | 17.8° | 17.8° |
| Des. trk: | 126.0° | Far Rng Dep: | 9.6° | 9.6° | 9.6° | 9.6° |
| Start Sq: | 90.0° | Atten (dB): | 47.0 | 47.0 | 44.0 | 56.0 |
| End Sq: | 90.0° | RMS Video (%FS) | 28.2 | 28.7 | 24.7 | 16.1 |

WAYPOINTS

| | Latitude | Longitude | |
|----------|------------|------------|---------------------------|
| Line_up: | N 46:57.33 | W 68:47.84 | Main Target: GP |
| Start: | N 46:50.30 | W 68:33.66 | Mocomp Point: |
| End: | N 46:44.43 | W 68:21.89 | Lat: N 46:44.73 |
| From: | N 54:27.95 | W 91:52.44 | Long: W 68:30.56 |
| To: | N 35:38.50 | W 51:55.06 | Tgt Trk: 0.0 Tgt Vel: 0.0 |
| | | | Alt: 660.0 ft |

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 250.1 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> .2 fps (s.d.= 1.0)
Ave Fil Vel -> 1.5 fps (s.d.= .7)

| NML XMIT PWR | ANT BIAS | Tape Footage | Drive no. |
|--------------|-----------------|-------------------|-----------|
| X: -70.0 | Elevation: 0.0° | Starting: 9008 ft | (1) |
| L: -70.0 | Azimuth: 0.0° | Ending: 10264 ft | (1) |
| C: -70.0 | Pitch: 0.0° | | |
| P: 46.3 | | | |

| | | |
|-----------|------------|---------------------|
| Vel Bias | CAL Atten | LINE Map Time (UCT) |
| X: 1035.0 | X: 63.8 dB | Start: 02:11:05 |
| Y: -433.0 | L: 63.8 dB | End: 02:13:47 |
| Z: 6697.0 | C: 63.8 dB | |

Mocomp Counters

Start: 1442390 00160256h
End: 1469537 00166C61h

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

27 Jun 1995
Tape: E1414

Post-line Data Sheet
Line 47
Mission: PORTAGE MAINE, DAY

Time: 178:02:22:33
Pass 26
Req.# 25

AIRCRAFT & CHANNEL DATA

| | | | | | | | |
|-----------|---------------|-----------------|----------------|-------|-------|-------|-------|
| Altitude | | CH 1 | CH 2 | CH 3 | CH 4 | | |
| Desired: | 6000 ft | p-VV | p-VH | p-HV | p-HH | | |
| Baro: | 5845 ft s.d.= | 3 | Swath Ctr Ang: | 15.0° | 15.0° | 15.0° | 15.0° |
| Slt. rng: | 20084 ft | Tgt Dep Ang: | 15.0° | 15.0° | 15.0° | 15.0° | |
| Look: | Right | St rng (ft): | 18544 | 18544 | 18544 | 18544 | |
| Depr Ang: | 25.0° | Near Rng Dep: | 18.4° | 18.4° | 18.4° | 18.4° | |
| Des. trk: | 276.0° | Far Rng Dep: | 9.7° | 9.7° | 9.7° | 9.7° | |
| Start Sq: | 90.0° | Atten (dB): | 47.0 | 45.0 | 44.0 | 56.0 | |
| End Sq: | 90.0° | RMS Video (%FS) | 24.5 | 32.2 | 20.5 | 17.0 | |

WAYPOINTS

| | | |
|---------------------|------------|---------------------------|
| Latitude | Longitude | Main Target: CALCS |
| Line_up: N 46:39.29 | W 68:04.91 | Mocomp Point: |
| Start: N 46:40.59 | W 68:22.23 | Lat: N 46:44.29 |
| End: N 46:41.63 | W 68:36.69 | Long: W 68:28.98 |
| From: N 42:35.05 | W 45:46.38 | Tgt Trk: 0.0 Tgt Vel: 0.0 |
| To: N 45:52.31 | W 92:35.10 | Alt: 802.0 ft |

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 253.8 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1NOA

Ave Ref Vel -> -.4 fps (s.d.= 5.6)
Ave Fil Vel -> -2.2 fps (s.d.= 5.4)

| NML XMIT PWR | ANT BIAS | Tape Footage | Drive no. |
|--------------|-----------------|------------------|-----------|
| X: -70.0 | Elevation: 0.0° | Starting: 201 ft | (2) |
| L: -70.0 | Azimuth: 0.0° | Ending: 1462 ft | (2) |
| C: -70.0 | Pitch: 0.0° | | |
| P: 46.4 | | | |

| | |
|-----------|------------|
| Vel Bias | CAL Atten |
| X: 1035.0 | X: 63.8 dB |
| Y: -433.0 | L: 63.8 dB |
| Z: 6697.0 | C: 63.8 dB |

LINE Map Time (UCT)
Start: 02:22:33
End: 02:25:13

Mocomp Counters

Start: 1495751 0016D2C7h
End: 1522549 00173B75h

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

27 Jun 1995
Tape: E1414

Post-line Data Sheet
Line 2
Mission: PORTAGE MAINE, DAY

Time: 178:02:35:33
Pass 27
Req.# 2

AIRCRAFT & CHANNEL DATA

| | | | | | | |
|-----------|----------------|------------------|-------|-------|-------|-------|
| Altitude | | | CH 1 | CH 2 | CH 3 | CH 4 |
| Desired: | 13500 ft | Wave/Pol.: | X-HH | L-HH | C-HH | L-VV |
| Baro: | 13315 ft s.d.= | 3 Swath Ctr Ang: | 40.0° | 40.0° | 40.0° | 40.0° |
| Slt. rng: | 19975 ft | Tgt Dep Ang: | 40.0° | 40.0° | 40.0° | 40.0° |
| Look: | Left | St rng (ft): | 11915 | 11915 | 11915 | 11915 |
| Depr Ang: | 25.0° | Near Rng Dep: | 90.0° | 90.0° | 90.0° | 90.0° |
| Des. trk: | 186.0° | Far Rng Dep: | 28.4° | 28.4° | 28.4° | 28.4° |
| Start Sq: | -90.0° | Atten (dB): | 18.0 | 36.0 | 20.0 | 33.0 |
| End Sq: | -90.0° | RMS Video (%FS) | 10.3 | 23.0 | 25.3 | 32.0 |

WAYPOINTS

| | | |
|---------------------|------------|---------------------------|
| Latitude | Longitude | |
| Line_up: N 47:01.89 | W 68:31.61 | Main Target: GP |
| Start: N 46:49.96 | W 68:33.44 | Mocomp Point: |
| End: N 46:40.02 | W 68:34.96 | Lat: N 46:44.73 |
| From: N 63:14.50 | W 64:46.38 | Long: W 68:30.56 |
| To: N 30:07.76 | W 70:33.17 | Tgt Trk: 0.0 Tgt Vel: 0.0 |
| | | Alt: 660.0 ft |

RADAR PARAMETERS - for XLC

| | |
|------------------------------|--------------------------------|
| RTP Channel: 1 | Filter damping is Hi -> 10 sec |
| Resolution: High | PRF Factor is FAST (262.5 kts) |
| Swath width: Single | Ave Gndspd: Real -> 255.0 kts |
| RMS Time Constant: 2^7 | Mocomp On |
| Position Reference: ON | GPS Vel/Pos Reference |
| Atten. Tracking: OFF | Adj Gnd Scene: 5000.0 ft |
| Range Gate Delta: 0.0 ft | Range Tracking is OFF |
| Azimuth Presum Rate: Presum6 | Clutterlock Reference: OFF |

Ave Ref Vel -> 20.1 fps (s.d.= 2.3)
Ave Fil Vel -> 22.9 fps (s.d.= 2.1)

| | | | |
|--------------|-----------------|-------------------|-----------|
| NML XMIT PWR | ANT BIAS | Tape Footage | Drive no. |
| X: -31.7 | Elevation: 0.0° | Starting: 1475 ft | (2) |
| L: -31.4 | Azimuth: 0.0° | Ending: 0 ft | (2) |
| C: -37.4 | Pitch: 0.0° | | |
| P: -70.0 | | | |

| | | |
|-----------|------------|---------------------|
| Vel Bias | CAL Atten | LINE Map Time (UCT) |
| X: 1035.0 | X: 63.8 dB | Start: 02:35:33 |
| Y: -433.0 | L: 63.8 dB | End: 02:35:35 |
| Z: 6697.0 | C: 63.8 dB | |

Mocomp Counters

| | | |
|----------------|-----------|---------------------|
| Start: 1554630 | 0017B8C6h | CPA (UCT): 00:00:00 |
| End: 1522549 | 00173B75h | Alt: 0 ft (GPS) |
| | | Lat: N 0:00: 0 |
| | | Lon: E 0:00: 0 |

27 Jun 1995
Tape: E1414

Post-line Data Sheet
Line 2
Mission: PORTAGE MAINE, DAY

Time: 178:02:45:32
Pass 28
Req.# 2

AIRCRAFT & CHANNEL DATA

| | | | | | | |
|-----------|----------------|------------------|-------|-------|-------|-------|
| Altitude | | | CH 1 | CH 2 | CH 3 | CH 4 |
| Desired: | 13500 ft | Wave/Pol.: | X-HH | L-HH | C-HH | L-VV |
| Baro: | 13329 ft s.d.= | 2 Swath Ctr Ang: | 40.0° | 40.0° | 40.0° | 40.0° |
| Slt. rng: | 19975 ft | Tgt Dep Ang: | 40.0° | 40.0° | 40.0° | 40.0° |
| Look: | Left | St rng (ft): | 11915 | 11915 | 11915 | 11915 |
| Depr Ang: | 25.0° | Near Rng Dep: | 90.0° | 90.0° | 90.0° | 90.0° |
| Des. trk: | 186.0° | Far Rng Dep: | 28.4° | 28.4° | 28.4° | 28.4° |
| Start Sq: | -90.0° | Atten (dB): | 18.0 | 36.0 | 20.0 | 33.0 |
| End Sq: | -90.0° | RMS Video (%FS) | 8.4 | 24.1 | 23.6 | 31.5 |

WAYPOINTS

| | |
|---------------------|------------|
| Latitude | Longitude |
| Line_up: N 47:01.89 | W 68:31.61 |
| Start: N 46:49.96 | W 68:33.44 |
| End: N 46:40.02 | W 68:34.96 |
| From: N 63:14.50 | W 64:46.38 |
| To: N 30:07.76 | W 70:33.17 |

Main Target: GP
Mocomp Point:
Lat: N 46:44.73
Long: W 68:30.56
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 660.0 ft

RADAR PARAMETERS - for XLC

RTP Channel: 1
Resolution: High
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 251.9 kts
Mocomp On
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF

Ave Ref Vel -> 1.8 fps (s.d.= .9)
Ave Fil Vel -> 2.8 fps (s.d.= .9)

| NML XMIT PWR | ANT BIAS | Tape Footage | Drive no. |
|--------------|-----------------|-------------------|-----------|
| X: -31.7 | Elevation: 0.0° | Starting: 1712 ft | (2) |
| L: -31.4 | Azimuth: 0.0° | Ending: 2768 ft | (2) |
| C: -37.4 | Pitch: 0.0° | | |
| P: -70.0 | | | |

| | | |
|-----------|------------|---------------------|
| Vel Bias | CAL Atten | LINE Map Time (UCT) |
| X: 1035.0 | X: 63.8 dB | Start: 02:45:32 |
| Y: -433.0 | L: 63.8 dB | End: 02:47:55 |
| Z: 6697.0 | C: 63.8 dB | |

Mocomp Counters

Start: 1590807 00184617h
End: 1613787 00189FDBh

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0